ADDENDUM No. 3

TO: **ALL BIDDERS**

FROM: **CITY OF HIALEAH**

ITB #: **2018-19-3210-00-009**

RE: **ITB – NW 97TH AVE FROM NW 154TH ST TO NW 162ND ST – PHASE 1 – ROADWAY AND DRAINAGE IMPROVEMENTS**

DATE: **March 5, 2019**

The original contract documents for the entitled: **ITB – NW 97TH AVE FROM NW 154TH ST TO NW 162ND ST – PHASE 1 – ROADWAY AND DRAINAGE IMPROVEMENTS** needs to be amended as noted in this Addendum No. 3.

This Addendum No. 3 consists of 6 typed pages, 4 attachments and 1 addendum receipt form (ARF). All other items and conditions of the original contract documents shall remain unchanged. This Addendum No. 3 shall become a part of the contract documents.

Approved for the issue: LUIS SUAREZ Date: March 5, 2019

Luis A. Suarez – Acting Purchasing Manager

ACKNOWLEDGMENT

Receipt of this Addendum No. 3 shall be acknowledged in the space provided on the ADDENDUM RECEIPT form – ARF (Copy attached) now a part of the Contract Documents to be faxed immediately to the City of Hialeah Purchasing Division (305) 883-5871 and submitted with sealed bids.

QUESTIONS AND ANSWERS:

The City received the following question(s), clarification(s) or suggestion(s) by email from Falcon 6 Infrastructure Group., ("FIG") on February 18, 2019:

FIG Question No. 1: ***Please consider the following in efforts to provide a more competitive approach and or opportunity for "new company":*** *In the event that a "New Firm" is established by executives, supervisors, and senior field staff ("key employees") that would have met the minimum experience requirements with a prior firm, the OWNER reserves the right to qualify the firm based on its sole determination and evaluation of the knowledge and prior experience of these key employees employed by the "new firm". The experience of key senior personnel with other firms may be counted towards the proposer's experience requirement, if acceptable to the ENGINEER OF RECORD?*

City's response: The bidding company must meet the minimum requirements outlined in the ITB.

The City received the following question(s), clarification(s) or suggestion(s) by email from Ric-Man International, Inc., ("RII") on February 18, 2019:

RII Question No. 1: It appears that the unit of measure for this line item is incorrect, please revise bid sheet to show correct measurement 96" Cap L.F. 2?

City's response: The unit for 96" CAP should be "Each" not LF, there are two 96" Cap.

The City received the following question(s), clarification(s) or suggestion(s) by email from Ric-Man International, Inc., ("RII") on February 14, 2019:

RII Question No. 2: Can you provide engineers estimate for the above referenced project?

City's response: The engineer's cost estimate is $3,273,860.66.

The City received the following question(s), clarification(s) or suggestion(s) by email from Ric-Man International, Inc., ("RII") on February 20, 2019:

RII Question No. 3: How many substantial and final days are in this contract?

City's response: The contractor will have a total of 210 days for construction.

The City received the following question(s), clarification(s) or suggestion(s) by email from Ric-Man International, Inc., ("RII") on February 28, 2019:

RII Question No. 4: I see there are SOI forms provided, are there SBE/CONS and SBE/GS requirements to meet, if yes please %? Please provided soil borings/geotech reports?

City's response: Please see attachment 1 for boring/geotech report.

The SBE goals are as follows:

- SBE/GS: 1.18%
- SBE/CONS: 4.61%

RII Question No. 5: When do you anticipate NTP?

City's response: Anticipated NTP will be June 2019.

RII Question No. 6: Please provide Bid Bond Form (Form 13) it is not within bid documents, if not we will assume a generic form is acceptable?

City's response: Please see attachment 2 for the following forms:

1. Form 13 - Bid Bond
2. Form 14 - Contractor's Performance and Payment Bond
3. Form 15 – Contractor's Performance and Payment Bond Cash
4. Form 16 – Release of Lien

The City received the following question(s), clarification(s) or suggestion(s) by email from Ric-Man International, Inc., ("RII") on February 27, 2019:

RII Question No. 7: Will off duty police be required? If yes can you provide a pay item for them? Is night work required?

City's response: Off duty officer will not be necessary & night work will not be required.

RII Question No. 8: What material is the 36" solid pipe?

City's response: Solid CMP

RII Question No. 9: What material is the 18" solid pipe?

City's response: Solid CMP

RII Question No. 10: Plans call for 96" cmp and the line item reads 96" solid pipe, please advise if you want cmp or solid, if solid what material do you want?

City's response: Solid CMP

RII Question No. 11: Bids are due 3/28 and question deadline is 3/1 (that's 27 days ahead of bid date, which is too many days). It is inevitable that more questions will arise in those 3 weeks. Could you extend the question deadline?

City's response: Deadline for RFI's will be extended until March 12, 2019.

The City received the following question(s), clarification(s) or suggestion(s) by email from Zahlene Enterprises, Inc., ("ZEI") on February 26, 2019:

ZEI Question No. 1: The ITB in Page 10, Section 2.7 lists the documents that should be included in a specific sequence and format, but in Page 16, it lists some of the documents mentioned in Page 10, but in a different order. What would be the adequate order and documents the shall be included in the Qualification Package?

City's response: Follow the order in Section 2 – 3 Contract Forms and Appendices.

The City received the following question(s), clarification(s) or suggestion(s) by email from Acosta Tractors, Inc., ("ATI") on March 1, 2019:

ATI Question No. 1: The Index of Roadway Plans on Sht. C- 0, indicates Sheets S-1 to S-12 correspond to the Survey information, but these sheets are not included in the set of plans. Please advise?

City's response: See attachment 3 – Survey Plans

ATI Question No. 2: Bid Form has an item for "FPL Pole Relocation" (6 EA), but normally is FPL who does the relocation of his own poles. Furthermore, the plans indicate to be relocated by FPL. Please advise?

City's response: Pole to be relocated by FPL – it should not be included in the bid form.

ATI Question No. 3: Bid Form has an item for "Service Pole Relocation (1 EA). Where in the plans can we find it?

City's response: See attachment 4 – Electrical Plans

ATI Question No. 4: Bid Form has an item for "Signalization at NW 158 St" (1 EA). What is the scope of work of this Signalization item? Where in the plans can we find it?

City's response: There is no plan at this time. Please provide a lump sum.

ATTACHEMENTS:

1. Boring/Geotech report.
2. Missing Section 6 Forms:

   A. Form 13 - Bid Bond

   B. Form 14 - Contractor's Performance and Payment Bond

   C. Form 15 – Contractor's Performance and Payment Bond Cash

   D. Form 16 – Release of Lien

3. Survey Plans
4. Electrical Plans

CITY OF HIALEAH

ITB – NW 97TH AVE FROM NW 154TH ST TO NW 162ND ST – PHASE 1 – ROADWAY AND DRAINAGE IMPROVEMENTS

ADDENDUM No. 3

ADDENDUM RECEIPT FORM

CONTRACTOR'S NAME _____

ADDRESS _____

PHONE NO. _____

CONTACT NAME _____ SIGNATURE _____

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDUM BY SIGNING AND DATING BELOW: (Copy of this form must be faxed immediately to the City of Hialeah at (305) 883-5871).

ADDENDUM	SIGNATURE	DATE
3		

Attachment 1

REPORT OF SUBSURFACE SOIL EXPLORATION
GEOTECHNICAL EVALUATION AND RECOMMENDATIONS

NW 97th AVENUE CULVERT UPDATE
NW 97th AVENUE SOUTH OF 154th STREET TO 170th STREET
HIALEAH, FLORIDA

JUNE 2017

Prepared for:

SRS ENGINEERING, INC.
5001 SW 74th COURT, SUITE 201
MIAMI, FLORIDA 33155

NELCO TESTING AND ENGINEERING SERVICES, INC.
13370 SW 131st Street, Suite 105
Miami, Florida 33186

NELCO
TESTING & ENGINEERING SERVICES, INC.

June 21st, 2017

SRS Engineering, Inc.
5001 SW 74th Court, Suite 201
Miami Lakes, Florida 33016

Attention: Ignacio Serralta

Reference: Report of Subsurface Soil Exploration and Recommendations
Evaluation of Subsurface Conditions
For the Project:

NW 97th Avenue Culvert Update
NW 97th Avenue South of 154th Street to 170th Street
Hialeah, Florida

NTES Project Number: B-1705241

Dear Sirs,

Following please find report of subsurface soil explorations, drainage testing and geotechnical evaluation for the above referenced property. Test Borings, Percolation Tests and Soil Explorations and sampling took place between May 2nd and May 30th, 2017 using procedures in general accordance with ASTM D-1586, the Standard Penetration Test. This report presents our findings, data, observations, and recommendations.

We appreciate this opportunity to assist you in this project. If you have any questions or comments, please call us at (305) 259-9779.

Respectfully Submitted,
NELCO Testing and Engineering Services, Inc.

V.M.B. Venkatesan 6/22/17
V.M.B. Venkatesan
Professional Engineer No. 63107
State of Florida

NELCO
TESTING AND ENGINEERING SERVICES

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APPENDICES

NELCO
TESTING AND ENGINEERING SERVICES

Subsurface Soil Exploration
For
NW 97th Avenue Culvert Update
NW 97th Avenue South of 154th Street to 170th Street
Hialeah, Florida

INTRODUCTION

PROJECT INFORMATION

The purpose of this sub-surface exploration was to obtain data in order to provide an evaluation of the sub-surface conditions for use in roadway design for the proposed culvert and roadway improvements along NW 97th Avenue in Hialeah, Florida.

The proposed project consists of a utility culvert update along NW 97th Avenue near NW 154th Street in Hialeah, Florida.

The scope of work for this project consists of providing Geotechnical engineering services and recommendations for the proposed culvert and roadway improvements.

Request for services and Project and Testing information was provided by Mr. Ignacio Serralta of SRS Engineering, Inc. Services rendered included performing field reconnaissance, requesting and coordinating underground utility locations, conducting a soils survey, performing Standard Penetration Test Borings, manual soil explorations percolation tests, and providing engineering evaluations and recommendations.

TESTING PROGRAM/FIELD EXPLORATION

1) Subsurface exploration consisted of subsurface testing, drainage, and field sampling, performed as follows. Please refer to Appendix A for test locations.
    a) Eleven (11) Standard Penetration Test Borings performed to a depth of ten (10) feet below the existing grades.
    b) Four (4) percolation tests were conducted in accordance with South Florida Water Management District "Usual Open Hole Test" Standards were performed to a depth of fifteen (15) feet below existing grades in order to estimate the hydraulic conductivity values (k) of the soils. Tests were unable to be performed at three proposed percolation test locations due to inaccessibility.

2) Preparation of a soils survey report which summarizes the field and laboratory data generated, subsurface conditions encountered, results and locations of test borings and percolation tests, and engineering evaluations and recommendations.

STANDARD PENETRATION TEST BORING

A total of eleven (11) Standard Penetration Test Borings (ASTM D-1586, the Standard Penetration Test) were performed to a maximum depth of fifteen (15) feet below existing grades. Please refer to Appendix B.

PERCOLATION TESTS

Percolation tests were performed in general accordance with the South Florida Water Management District (SFWMD) procedures for the "Usual Open Hole". The tests were performed in a 6-inch diameter augered borehole predrilled to a depth of 15 feet below the existing ground surface, the depths to the existing water table was measured and recorded. Water was then pumped in order to raise the water level in the borehole to the ground surface level. Once the inflow stabilized with the outflow rate, the average pumping rate with this stabilized flow rate was then recorded. The hydraulic conductivity value (k) was calculated and reported in units of cubic feet per second per square foot of seepage area per foot of head (cfs/ft^2 - ft head), please refer to Appendix C.

SUBSURFACE CONDITIONS & EVALUATIONS

NW 97th Avenue

In general, the subsurface conditions within the tested areas are mantled by sand and silty sand with gravel to approximate depths ranging between 20 and 6.0 feet below existing grade. Beneath, soft to medium dense sandy limestone was encountered throughout the maximum explored depth of fifteen (15) feet below existing grade. Groundwater at the time of testing was encountered between approximately 2.0 and 4.5 feet below existing grade. We anticipate these subsurface conditions will not impose geotechnical constraints or limitations for the proposed roadway improvement provided the sub-grade of these areas is appropriately prepared prior to placement of the new pavement.

ROADWAY CONSTRUCTION RECOMMENDATIONS

Roadway Areas Sub-Grade Preparation:

1. Initial site preparation should consist of removal of all asphalt, vegetation, topsoil, organic material and muck within the proposed roadways (for the entire roadway footprint) plus five feet outside the roadway perimeter. Increase the 5 foot dimension by 1.0 foot for each foot of excavation depth required exceeding 4.0 feet.

2. Prior to placement and compaction of any additional fill material, the existing ground surface shall be compacted to a minimum of 95 percent of the maximum dry density (ASTM D-1557). Density tests shall be conducted for every 2500 square feet, however at least two density test locations will be required for any given location.

3. The areas under any proposed roadway areas shall have all vegetation, stumps, roots, and foreign materials removed prior to placement of additional fill.

4. Fill and compact the construction areas in lifts not greater than 12 inches of compacted thickness to elevate to required grade. Compact each lift to a minimum of 95 percent of the maximum dry density, as determined by ASTM D-1557, The Modified Proctor Test. Pavement sections and design specifications should be considered using the following guidelines.

General Components

Generalized pavement recommendations have been provided. A pavement section consisting of three layers should be used, as this utilizes the strength and durability of several layers in order to produce a final product that is both cost-effective and adequate regarding material availability. Placement of these layers may take place directly over the prepared ground surface, provided the initial site preparation has been conducted as recommended above.

1. The initial layer (stabilized sub-grade) of the pavement section shall consist of a mixture of limerock with lime sand with a minimum LBR value of 40. The thickness of this layer should be at least 12 inches. This layer shall be compacted to a minimum of 95 percent of the maximum dry density (as determined by ASTM D-1557).

General Components – continued:

2. Base course material is recommended to be crushed limerock obtained from an approved source with a minimum LBR value of 100 (limerock minimum). Base course material shall be placed in lifts not greater than 6-inches, and compacted to a minimum of 98 percent of the maximum dry density (ASTM D-1557). This course shall have a recommended (minimum) thickness of at least 6-inches, and 8-inches for heavier traffic loads.

3. The final surface course is the portion which comes directly in contact with traffic loads. The use of a heavy-duty asphaltic concrete mix (or reinforced concrete) is recommended, consisting of a mixture conforming to a current approved design. Samples of all materials should be tested for aggregate gradation and asphalt content in order to verify compliance with all design specifications. Asphalt should be compacted to a minimum of 95 percent of the laboratory density.

Roadway/Parking Area Construction Considerations

All construction traffic (heavy equipment, etc.) should be directed away from all incomplete paved areas under construction, as these areas are not expected to perform as well as the final product under full traffic loads.

It is recommended that the base course and footings be separated at least 1.5 feet from the wet seasonal high groundwater level, in order to avoid premature deterioration due to surface runoff and intrusion of high groundwater into the base course material. If this is not possible, it is recommended that an asphaltic base material be used instead of crushed limerock, to avoid erosion of fine particulates over extended periods of time.

Groundwater levels are expected to rise and fall with each rainfall event. It should be noted that the use of a french drain system may cause the settlement of fine particles within limestone cavities. This cycle could cause "pot holes" to develop over time along the drainage system.

Should any sub-surface variations become evident during the course of this project, a re-evaluation of the recommendations contained in this report may be necessary. The applicability of this report should also be reviewed in the event significant changes occur in the design, nature, or location of the proposed parking lot, roadways and bus lane.

The design engineer should take these into consideration during the design process.

DRAINAGE

The hydraulic conductivity values (k) were calculated at each percolation test location and reported in units of cubic feet per second per square foot per foot of head. The corresponding hydraulic conductivity values (k) are listed below.

Test No.	Hydraulic Conductivity Value, K (cfs/ft^2 – ft head)
P-1	8.52×10^{-4}
P-2	9.71×10^{-4}
P-3	4.52×10^{-4}
P-4	8.25×10^{-4}

Please refer to Appendix "C" for Percolation Test Reports.

REPORT LIMITATIONS

The recommendations submitted are based on the available subsurface information obtained by Nelco Testing and Engineering Services, Inc. (NTES) and design details provided by SRS Engineering, Inc. for the proposed project. If there are any revisions to the nature, design or location of proposed structures, NTES should be notified immediately to determine if changes in recommendations are required. If NTES is not retained to perform these functions, NTES will not be responsible for the impact of those conditions of the project.

The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with ASTM specifications, and generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed. Evaluations expressed in this report are based on field observations and data collected during exploration. Variations throughout the sub-surface profile may exist between designated boring locations, and in inaccessible areas with existing structures. These may not become evident until construction operations have commenced. Should any variations become evident, NELCO Testing and Engineering Services, Inc. must be notified. A reevaluation of the information and professional opinions expressed in this report may be necessary.

Please note analysis and recommendations mentioned in this report are obtained from the borings performed at the indicated locations on the "Soil Boring/Percolation Test Location Sketch" included in this report. Local variations outside of the vertical reach of the boring locations may be encountered. Descriptions represent our interpretation of the subsurface data and observations at the specific boring locations, on the date tested.

This geotechnical report has been prepared by NTES for the intended use of SRS Engineering, Inc. and the specific application to the named project as described. Any third party use of this report should be conducted with the expressed written permission of NTES.

APPENDIX A

- Site Location Map
- Standard Penetration Test Borings/Percolation Test Location Sketch

PROJECT LOCATION MAP

NW 97th AVENUE CULVERT UPDATE

NW 97th AVENUE SOUTH of 154th STREET to 170th STREET

HIALEAH, FLORIDA

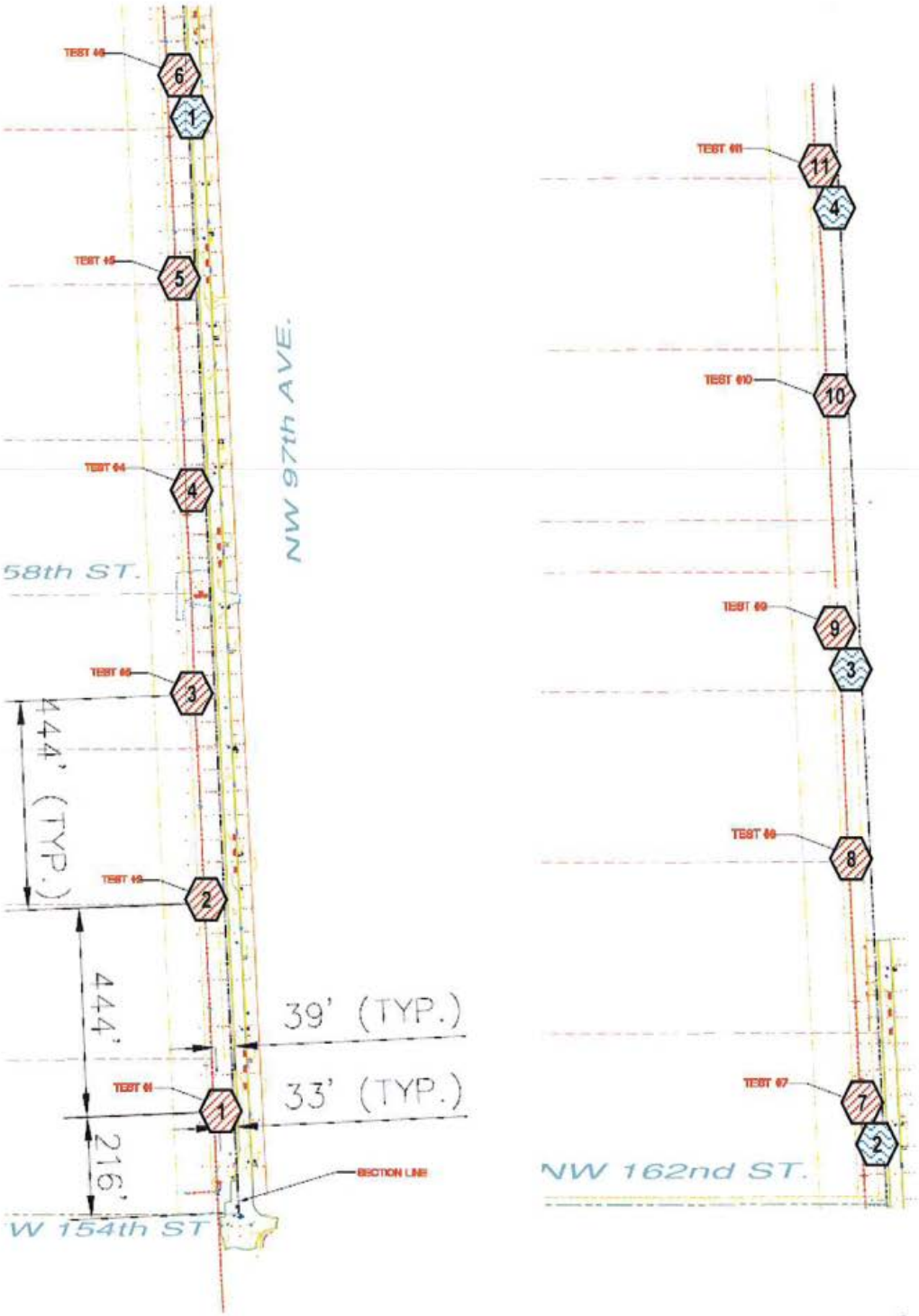
N

NELCO

TESTING & ENGINEERING SERVICES, INC.

NELCO
TESTING AND ENGINEERING SERVICES

Soil Boring/Percolation Test Location Sketch



SPT Boring Test Locations

Percolation Test Locations

VMB venkatesan
1/22/11

13370 S.W. 131 Street, Suite 105, Miami, Fl 33186 (305) 259-9779

APPENDIX B

- Standard Penetration Test Boring Logs

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 30, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 1**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0								
1			Sand with some gravel	*Brown (with some limestone gravel)*	1	13	10	21
2	May 30, 2017			*Tan (with some limestone gravel)*		11	7	
3			Sandy limestone	*Tan, sandy, soft*	2	8	9	19
4						10	11	
5					3	13	12	19
6						7	9	
7					4	9	8	14
8						6	6	
9					5	5	7	16
10						9	8	
11					6	11	12	22
12						10	8	
13					7	8	7	16
14						5	4	
15			End of Boring		8	5	6	X
16								
17								
18								
19								
20								

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 30, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 2**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0	May 30, 2017		Sand with some gravel	*Brown (with some limestone gravel)*	1	9	12	23
1						11	11	
2				*Tan (with some limestone gravel)*	2	9	7	17
3			Sandy limestone	*Tan, sandy, soft to medium dense*		10	8	
4					3	12	12	22
5						10	8	
6					4	5	6	11
7						5	10	
8					5	4	9	17
9						8	10	
10					6	14	11	23
11						12	8	
12					7	6	11	25
13						14	13	
14					8	12	11	X
15			End of Boring					
16								
17								
18								
19								
20								

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 30, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 3**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0								
1	May 30, 2017		Sand with some gravel	*Brown (with some limestone gravel)*	1	8	10	20
2				*Tan (with some limestone gravel)*		10	7	
3			Sandy limestone	*Tan, sandy, soft to medium dense*	2	9	12	24
4						12	14	
5					3	12	13	23
6						10	8	
7					4	7	7	16
8						9	11	
9					5	12	10	25
10						15	11	
11					6	14	12	22
12						10	18	
13					7	16	15	26
14						11	14	
15					8	10	8	X
16			End of Boring					
17								
18								
19								
20								

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 30, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 4**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0	May 30, 2017		Sand with some gravel	*Brown (with some limestone gravel)*	1	11	9	19
1						10	8	
2				*Tan (with some limestone gravel)*	2	13	12	19
3			Sandy limestone	*Tan, sandy, soft*		7	14	
4					3	9	9	17
5						8	9	
6					4	9	7	12
7						5	4	
8					5	6	5	11
9						6	9	
10					6	5	4	15
11						11	10	
12					7	8	12	23
13						11	14	
14					8	12	11	X
15			End of Boring					
16								
17								
18								
19								
20								

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 30, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 5**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0	May 30, 2017							
1			Sand with some gravel	*Brown (with some limestone gravel)*	1	13	9	20
2						11	8	
				Tan (with some limestone gravel)	2	10	7	13
3			Sandy limestone	*Tan, sandy, soft to medium dense*		6	7	
4					3	6	8	14
5						6	5	
6					4	4	6	15
7						9	11	
8					5	14	10	28
9						18	16	
10					6	11	12	20
11						8	9	
12					7	18	8	13
13						5	4	
14					8	6	5	X
15			End of Boring					
16								
17								
18								
19								
20								

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 2, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 6**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0	May 2, 2017		Sand with some gravel	*Brown (with some limestone gravel)*	1	2	3	6
1						3	3	
2					2	4	6	14
3						8	5	
4					3	7	9	19
5			Sandy limestone	*Tan, sandy, soft*		10	8	
6					4	6	8	17
7						9	9	
8					5	11	7	11
9						4	9	
10					6	6	6	14
11						8	7	
12					7	8	8	15
13						7	7	
14					8	6	7	X
15			End of Boring					
16								
17								
18								
19								
20								

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 2, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 7**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0	May 2, 2017							
1			Sand with some gravel	*Dark brown (with some limestone gravel)*	1	3	3	7
2						4	3	
			Sand	*Brown*	2	5	5	8
3						3	4	
4			Sand with some gravel	*Brown (with some limestone gravel)*	3	4	5	13
5						8	6	
6			Sandy limestone	*Tan, sandy, soft*	4	8	8	18
7						10	11	
8					5	8	6	12
9						6	7	
10					6	9	5	13
11						8	8	
12					7	10	7	11
13						4	6	
14					8	8	6	X
15			End of Boring					
16								
17								
18								
19								
20								

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 2, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 8**

Depth	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0	Sand with some gravel	*Brown (with some limestone gravel)*	1	6	11	22
1				11	9	
2			2	7	6	10
3				4	6	
4			3	10	20	41
5	Sandy limestone	*Tan, sandy, soft to medium dense*		21	18	
6			4	23	13	15
7				14	19	
8			5	21	17	31
9				14	10	
10			6	12	14	27
11				13	16	
12			7	17	10	29
13				19	12	
14			8	12	11	X
15	End of Boring					
16						
17						
18						
19						
20						

Water Level: May 2, 2017

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

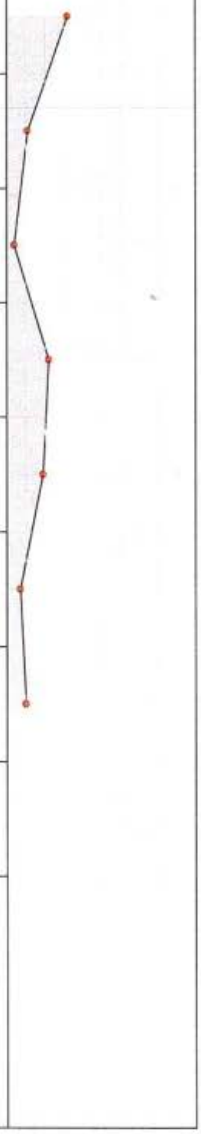
STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 2, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 9**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0								
1			Sand with some gravel	*Brown (with some limestone gravel)*	1	5	15	32
2						17	16	
3	May 2, 2017				2	10	9	11
4			Muck	*Dark brown*		2	2	
5					3	2	1	4
6						3	3	
7			Sandy limestone	*Tan, sandy, soft*	4	9	10	22
8						12	11	
9					5	12	10	19
10						9	5	
11					6	2	4	7
12						3	4	
13					7	4	4	10
14						6	4	
15					8	5	6	X
16			End of Boring					
17								
18								
19								
20								

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90



Per ASTM - D 1586, Standard Penetration Test

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 2, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 10**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0	May 2, 2017		Sand with some roots, muck	*Dark brown (with some roots and muck)*	1	2	2	4
1			Muck	*Dark brown*		2	3	
2					2	3	2	4
3						2	12	
4			Sandy limestone	*Tan, sandy, soft to medium dense*	3	20	21	35
5						14	20	
6					4	15	10	24
7						14	12	
8					5	16	13	24
9						11	9	
10					6	10	8	16
11						8	6	
12					7	9	5	12
13						7	6	
14					8	11	14	X
15			End of Boring					
16								
17								
18								
19								
20								

Standard Penetration Test N-value Blows/ft: 10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

STANDARD PENETRATION TEST BORING LOG

Nelco Testing & Engineering Services, Inc.
13370 SW 131 Street, Suite 105
Miami, Florida 33186

Client: SRS Engineering, Inc.	**Date: May 2, 2017**
Project: 97 Avenue Culvert Update	**Job Number: B-1705241**
Project Location: NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida	**Test Boring Number: 11**

Depth	Water Level	Symbol	Strata Name	Description	SAMPLE Number	Blow Count 6"	Blow Count 6"	N-Value
0	May 2, 2017		Sand with some gravel	*Brown (with some limestone gravel)*	1	1	1	2
1			Silty sand with some muck	*Dark brown (with some muck)*		1	1	
2			Sandy limestone	*Tan, sandy, soft to medium dense*	2	12	18	32
3						14	110	
4					3	8	11	21
5						10	10	
6					4	14	12	23
7						11	10	
8					5	13	11	23
9						12	14	
10					6	11	11	21
11						10	9	
12					7	21	17	35
13						18	10	
14					8	15	14	X
15			End of Boring					
16								
17								
18								
19								
20								

Standard Penetration Test N-value
Blows/ft
10 30 50 70 90

Per ASTM - D 1586, Standard Penetration Test

APPENDIX C

- Percolation Test Results

NELCO

TESTING AND ENGINEERING SERVICES

PERCOLATION TEST REPORT

CLIENT: **SRS Engineering, Inc.**
5001 SW 74 Court, Suite 201
Miami, Florida 33155

DATE: May 2, 2017
JOB No.: P-1705241

Project:	97 Avenue Culvert Update
Location:	NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida

PERCOLATION TEST RESULTS		
Test Number (No) (u)	1	**SOIL CONDITIONS**
Test Hole Diameter (d) (ft)	0.5	0.0' - 3.5': Sand with some gravel
Depth to Water Table (H_2) (ft)	2.17	3.5' - 15.0': Sandy limestone
Saturated Depth (Ds) (ft)	12.83	
"Stabilized" Flow Rate (Q) (c.f.s.)	**4.08E-02**	
Hydraulic Conductivity (K)	**8.52E-04**	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004)" Usual Open-Hole Test"

Comments: **Please note:** "Soil Conditions" listed above are representative of material encountered in test hole only. In no way whatsoever shall any assumptions of soil conditions outside the test hole area be made based on the soil conditions outlined in this report.

V.M.B. Venkatesan 6/22/17

V.M.B. Venkatesan
Professional Engineer No. 63107
State of Florida

NELCO

TESTING AND ENGINEERING SERVICES

PERCOLATION TEST REPORT

CLIENT: **SRS Engineering, Inc.**
5001 SW 74 Court, Suite 201
Miami, Florida 33155

DATE: May 2, 2017
JOB No.: P-1705241

Project:	97 Avenue Culvert Update
Location:	NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida

PERCOLATION TEST RESULTS		
Test Number (No) (u)	2	**SOIL CONDITIONS**
Test Hole Diameter (d) (ft)	0.5	0.0' - 3.0': Sand with some gravel
Depth to Water Table (H_2) (ft)	2.33	3.0' - 5.0': Sand
Saturated Depth (Ds) (ft)	12.67	5.0' - 15.0': Sandy limestone
"Stabilized" Flow Rate (Q) (c.f.s.)	**4.96E-02**	
Hydraulic Conductivity (K)	**9.71E-04**	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004)" Usual Open-Hole Test"

Comments: **Please note:** "Soil Conditions" listed above are representative of material encountered in test hole only. In no way whatsoever shall any assumptions of soil conditions outside the test hole area be made based on the soil conditions outlined in this report.

V.M.B. Venkatesan 6/22/17

V.M.B. Venkatesan
Professional Engineer No. 63107
State of Florida

NELCO

TESTING AND ENGINEERING SERVICES

PERCOLATION TEST REPORT

CLIENT: **SRS Engineering, Inc.**
5001 SW 74 Court, Suite 201
Miami, Florida 33155

DATE: May 2, 2017
JOB No.: P-1705241

Project:	97 Avenue Culvert Update
Location:	NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida

PERCOLATION TEST RESULTS		
Test Number (No) (u)	3	**SOIL CONDITIONS**
Test Hole Diameter (d) (ft)	0.5	0.0' - 3.0': Sand with some gravel
Depth to Water Table (H_2) (ft)	4.17	3.0' - 6.0': Muck
Saturated Depth (Ds) (ft)	10.83	6.0' - 15.0': Sandy limestone
"Stabilized" Flow Rate (Q) (c.f.s.)	**3.86E-02**	
Hydraulic Conductivity (K)	**4.52E-04**	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004)" Usual Open-Hole Test"

Comments: **Please note:** "Soil Conditions" listed above are representative of material encountered in test hole only. In no way whatsoever shall any assumptions of soil conditions outside the test hole area be made based on the soil conditions outlined in this report.

V.M.B. Venkatesan 6/22/17

V.M.B. Venkatesan
Professional Engineer No. 63107
State of Florida

NELCO

TESTING AND ENGINEERING SERVICES

PERCOLATION TEST REPORT

CLIENT: **SRS Engineering, Inc.**
5001 SW 74 Court, Suite 201
Miami, Florida 33155

DATE: May 2, 2017
JOB No.: P-1705241

Project:	97 Avenue Culvert Update
Location:	NW 97 Avenue South of 154 Street to 170 Street, Hialeah, Florida

PERCOLATION TEST RESULTS		
Test Number (No) (u)	4	**SOIL CONDITIONS**
Test Hole Diameter (d) (ft)	0.5	0.0' - 1.0': Sand with some gravel
Depth to Water Table (H_2) (ft)	1.83	1.0' - 2.0': Muck
Saturated Depth (Ds) (ft)	13.17	2.0' - 15.0': Sandy limestone
"Stabilized" Flow Rate (Q) (c.f.s.)	**3.37E-02**	
Hydraulic Conductivity (K)	**8.25E-04**	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004)" Usual Open-Hole Test"

Comments: **Please note:** "Soil Conditions" listed above are representative of material encountered in test hole only. In no way whatsoever shall any assumptions of soil conditions outside the test hole area be made based on the soil conditions outlined in this report.

V.M.B. Venkatesan
Professional Engineer No. 63107
State of Florida
6/22/17

Attachment 2

Form 13. Bid Bond

STATE OF FLORIDA }
COUNTY OF MIAMI DADE }SS.
CITY OF HIALEAH }

KNOWN ALL MEN BY THESE PRESENTS, That we _____
_____as Principal,
and_____, as Surety, are held and firmly bonded unto the City of Hialeah as Owner in the penal sum of_____
_____Dollars ($_____), lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.
THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has submitted to the City of Hialeah the accompanying Bid, signed

_____ ,and dated_____,2018, for

ITB – NW 97th Avenue from NW 154th Street to NW 162nd Street – Phase 1 – Roadway and Drainage Improvements

CITY OF HIALEAH, FLORIDA

in accordance with the Plans and Specifications therefore, the call for Bids, and the Instructions to Bidders, all of which are made a part hereof by reference as if fully set forth herein.

NOW, THEREFORE,

(a) if the Principal shall not withdraw said bid within one hundred eighty (180) days after date of submittal of the same, and shall within ten (10) days after written notice being given by the City Mayor or his designee, of the award of the contract, enter into a written contract with the City, in accordance with the bid as accepted, and give bond with good and sufficient surety or sureties, as may be required for the faithful performance and proper fulfillment of such contract.

(b) in the event of the withdrawal of said bid within the period specified, or the failure to enter into such contract and give such bond within the time specified, if the Principal shall pay the City the difference between the amount specified in said bid and the amount for which the City may procure the required work and/or supplies, if the latter amount be in excess of the former, the above obligation shall be void and of no effect, otherwise to remain in full force and effect.

IN WITNESS HEREOF, the above bounded parties have executed this instrument under their several seals this _____ day of _____, A.D., 20_____, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

WITNESS
(If Sole Ownership or Partnership, two (2) Witnesses Required.
If Corporation, Secretary Only will Attest and affix seal).

(1) _____

(2) _____

PRINCIPAL

_____ (SEAL)
Name of Firm

_____
Signature of Authorized Officer

_____
Title

_____
Business Address

_____
City, State

WITNESS:

SURETY:

(1) _____

Attorney-In-Fact

(2) _____

Business Address

SURETY:

_____
Attorney-In-Fact

_____
Business Address

_____
City, State

_____
Name of Local Agency

City,

Form 14. Contractor's Performance and Payment Bond (Surety)

STATE OF FLORIDA }
COUNTY OF MIAMI DADE }SS
CITY OF HIALEAH }

KNOW ALL MEN BY THESE PRESENTS THAT_____

_____

_____ as Principal, and

_____

_____a corporation organized under the Laws of the State of_____with its home office in the City of_____as Surety, (said Principal and said Surety hereinafter collectively being referred to as Obligor), are held and firmly bound unto the City of Hialeah, a municipal corporation of Florida, acting by and through the HIALEAH CITY COUNCIL, and their successors, in office, hereinafter called the Obligee, in the sum of $_____ lawful money of the United States of America, for the payment whereof to the Obligee, the Principal and Surety respectively bind themselves, their successors, heirs, and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this_____day of_____, 2018,

WHEREAS the Principal and Obligee are entering into a written contract, hereinafter called the Contract for

_____ as evidenced by

Contract Plans and Specifications made a part thereof and entered into between the Principal and the Obligee on the *_____ day of _____, 2018, a copy of which Contract may be attached and is hereby referred to and made a part thereof.

- To be dated by the City of Hialeah, Obligee.

NOW THEREFORE, the condition of the foregoing obligation is such that if the Principal shall indemnify the Obligee for all loss that the Obligee may sustain by reason of the Principal's failure to comply with any of the terms of the Contract, then this obligation shall be void; otherwise it shall remain in full force.

THIS BOND shall also be security for the performance by the Principal and Surety of the following additional covenants and obligations, and the recitals and references herein contained shall constitute a part of this Bond and obligation:

1. Said Principal (Contractor) shall well and truly perform, carry out, and abide by all the terms, conditions and provisions of said contract and building complete the structures therein specified in accordance with the terms thereof, and the Obligor herein shall and does hereby agree to indemnify the Obligee and hold it harmless or, from and against any and all liability, loss, cost, damage or expense thereof by reason of any negligence, default, and/or misconduct on the part of the said Contractor and agents, servants, and/or employees, in, about, or on account of the construction of said Contract by the said Contractor, and shall repay to and reimburse to the Obligee promptly upon demand, all sums of money, each and every, reasonably paid out or expended by the said Obligee on account of the failure and/or refusal of said Contractor to carry out , do, perform, and /or comply with any of the terms and provisions of said Contract at the time and in the manner therein provided.

2. The Principal will make payments to all persons supplying the Principal, labor, materials, and supplies used directly or indirectly by the Principal or any subcontractors) of the Principal in the prosecution of the work provided for in said Contract.

3. Each and every person, natural and artificial, for whose benefit this Bond has been executed as disclosed by the test of this Bond, and of said Contract, specifications, drawings and all papers, and of said agreement and instruments attached and made a part of said Contract, and each and every person, natural or artificial, supplying labor, materials, or supplies in furtherance of said Contract, shall have the same several rights of suit or action upon this Bond as if he or they were the Obligee(s) herein specifically mentioned, and the obligations hereof shall be several as to the rights of said persons or said Obligees hereof.

4. In each and every suit brought against the Obligor upon this Bond in which the plaintiff shall be successful, there shall be assessed therein against the Obligor herein, in favor of the plaintiff therein, reasonable counsel fees, which the Obligor hereby expressly agrees to pay as part of the cost and expense of such suit.

IN WITNESS WHEREOF the said Principal and said Surety hereto have caused these presents to be executed this_____day of_____, 2018

APPROVED AS TO FORM:

_____

City Attorney

Contractors Performance and Payment Bond (Surety)

WHEN THE PRINCIPAL IS AN INDIVIDUAL:

Signed, sealed and delivered in the presence of:

(SEAL)

(Witness) (Signature of Individual)

(Witness) (Printed Name of Individual)

WHEN THE PRINCIPAL IS A SOLE PROPRIETORSHIP OR OPERATES UNDER A TRADE NAME:

Signed, sealed and delivered in the presence of:

(Witness) (Name of Firm)

(Witness) (Signature of Individual)

WHEN THE PRINCIPAL IS A PARTNERSHIP:

Signed, sealed and delivered in the presence of:

(Name of Firm) A Partnership

BY

Partner

WHEN THE PRINCIPAL IS A CORPORATION:

ATTEST:

Correct Name of Corporation

By_____

President

_____

(Corporate Seal)

_____

(Name of Surety)

_____

_____

(Address of Surety)

By_____

_____

NOTE: If both Principal and Surety are Corporations, the respective corporate seals should be affixed and attached.

CERTIFICATES AS TO CORPORATE PRINCIPAL

I,_____, certify that I am the secretary of the Corporation named as Principal in the within Bond; that_____, who signed the said Bond on behalf of the Principal, was then_____ of said Corporation; that I know his signature, and his signature thereto is genuine; and that said Bond was duly signed, sealed and attested for and in behalf of said Corporation by authority of its governing body.

_____
(Corporate Seal)

STATE OF FLORIDA }
COUNTY OF MIAMI DADE } SS
CITY OF HIALEAH }

Before me, a Notary Public duly commissioned, qualified and acting, personally, appeared;

_____

_____

to me well known, who being by me first duly sworn upon oath says that he is the attorney-in- fact for the_____ and that he has been authorized by_____ to execute the foregoing Bond on behalf of the Contractor named therein in favor of the City of Hialeah, a municipal Corporation of Florida.
Subscribed and sworn to before me this_____ day of_____, A.D.,20_____

_____
Notary Public State of Florida at Large My

Commission Expires

Form 15. Contractor's Performance and Payment Bond (Cash)

KNOW ALL MEN BY THESE PRESENTS THAT _____

_____

_____
hereinafter, called the contractor, is held and firmly bound unto CITY OF HIALEAH, a municipal corporation of Florida, hereinafter called the City, in the penal sum of $_____ which sum is deposited by the contractor in cash with the Finance Director of the City, for (1) the faithful performance of a certain written agreement dated_____,

2017, given by the contractor to the City, for the construction of_____

_____

_____
copy of which agreement is attached and by this reference made a part hereof, and (2) to pay promptly all persons supplying the contractor labor, material and supplies used directly or indirectly by the contractor or subcontractors, in the prosecution of the work provided for in said agreement.

NOW, THEREFORE, the conditions of the obligation are such that if the contractor shall comply in all respects with the terms and conditions of said agreement within the times therein specified, and shall pay promptly all persons as herein above stipulated, this obligation shall be void and the sum deposited shall be returned without interest to the contractor by the Finance Director; otherwise this obligation shall remain in full force, and the contractor, its heirs, executors, administrators, successors and assigns do hereby irrevocably authorize the Finance Director, without prior notice or demand to:

1. Transfer a sum equal to any amounts stipulated as liquidated damages for delay from the said deposit to the general fund of the City;

2. Pursuant to public advertisement and receipt and acceptance of bids, cause to be completed or reconstructed all or any part of the said construction or improvement, in case the Contractor should fail or refuse so to do in accordance with terms of said agreement and to pay for such construction or reconstruction from the said deposit;

3. Pay from said deposit, all just claims for labor and material incurred by the Contractor or any subcontractor for labor, materials or supplies used in prosecution of the work provided for in said Contract, and any judgments together with interest, costs and attorneys' fees entered under the provisions of Section 255.05 F.S., and

4. Pay from said deposit to the general fund of the City any and all other costs to the City, including, but not limited to, engineering, legal and contingent costs, together with any damages, either direct or consequential which the City may sustain on account of the failure of the Contractor to carry out and execute all the provisions of said agreement.

The penal sum herein above stipulated and deposited is not a limitation upon the liability of the Contractor to the City. In the event the City prosecutes to judgment against the Contractor any action brought against it by the Contractor, the Contractor agrees to pay to City the reasonable value of legal services there rendered by counsel for the City.

IN WITNESS WHEREOF the Contractor has executed under seal and delivered to City these presents this_____day of_____, 20_____

Approved as to form:

_____

City Attorney

WHEN THE PRINCIPAL IS AN INDIVIDUAL:
Signed, sealed and delivered in the presence of:

(Witness) (SEAL)
(Signature of Individual)

(Witness)
(Printed Name of Individual)

WHEN THE PRINCIPAL IS A SOLE PROPRIETORSHIP OR OPERATES UNDER A TRADE NAME:
Signed, sealed and delivered in the presence of:

(Witness)
(Name of Firm)

(Witness)
(Signature of Individual)

WHEN THE PRINCIPAL IS A PARTNERSHIP:
Signed, sealed and delivered in the presence of:

(Name of Firm) A Partnership

BY
Partner

WHEN THE PRINCIPAL IS A CORPORATION:

ATTEST:

Correct Name of Corporation

BY

(Secretary)

President

(Corporate Seal)

CORPORATE CERTIFICATE

I, _____

certify that I am the _____ Secretary _____ of the corporation named in the within bond; that _____

_____

who signed the said bond on behalf of the contractor, was then _____ of said corporation; that I know his signature, and his signature thereto is genuine; and that said bond was duly signed, sealed and attested for and in behalf of said corporation by its governing body.

_____ President

(Corporate Seal)

Form 16. Release of Lien

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, for and in consideration of the payment of the sum of……and ……/100 Dollars ($_____ _____) paid by the …… receipt of which is hereby acknowledged, hereby releases and quit claims to the said ……its successors and assigns, and ……the Owner, all liens, lien rights, claims or demands of any kind whatsoever, which the undersigned now has or might have against the building on premises legally described as ……

……

……

…… ……on account of labor performed and/ or Material furnished for the construction of any improvements thereon. That all labor and materials used by the undersigned in the erection of said improvements have been fully paid for.

IN WITNESS WHEREOF, have hereunto set my hand seal this ……day of……20……..

WITNESSES: …… (SEAL)

By ……

STATE OF FLORIDA }

COUNTY OF MIAMI DADE} SS CITY

OF HIALEAH }

Ihereby acknowledge that the statements contained in the foregoing Release of Lien are true and correct.

Sworn to and subscribed before me this ……day of……20……..

My Commission Expires:

Notary Public State of Florida at Large

Attachment 3

SURVEYOR'S NOTES:

SECTION 1) DATE OF FIELD SURVEY:

1. The date of completion of the field work of the Topographic Survey was on April 04, 2017.

SECTION 2) LEGAL DESCRIPTION:

Portion of Right–of Way of NW 97th Avenue from NW 154th Street to NW 170th Street

SECTION 3) ACCURACY:

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Minimum Technical Standards requirement for this Type of Survey as defined in Rule 5J–17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of (1"=40') or smaller.

SECTION 4) SOURCES OF DATA:

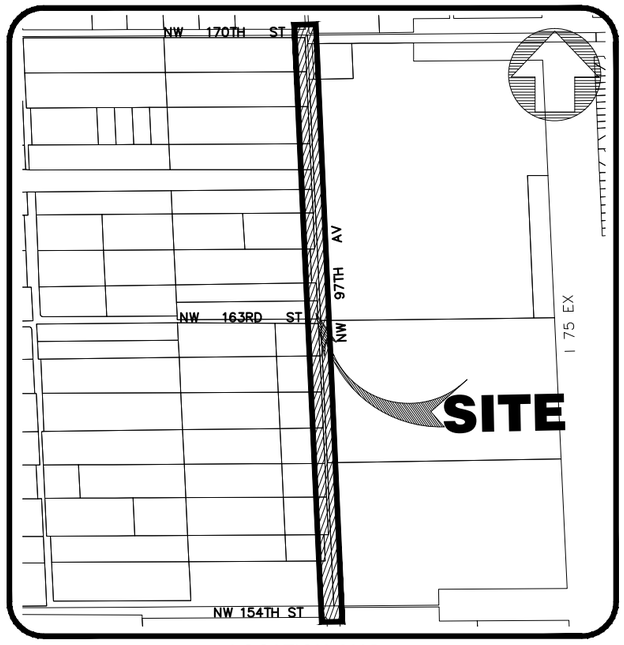
North arrow direction is based on an assumed Meridian.

Bearings as shown hereon are based upon the Easterly Boundary Line with an assumed bearing of N02°38'12"W, said line to be considered a well established and monumented line.

This property appears to be located in Flood Zone "AE", Elevation 6.0 as per Federal Emergency Management Agency (FEMA) Community Number 120643 (City of Hialeah), Flood Zone "AE", Elevation 7.0 as per Federal Emergency Management Agency (FEMA) Community Number 120635 (Miami–Dade County), Map Panel No. 12086C111, Suffix L, Map Revised Date: September 11, 2009.

Elevations as shown hereon are based on the National Geodetic Vertical Datum of 1929, as per Miami–Dade County's Benchmark Number N–628, Elevation 5.87 feet.

SECTION 16-17 - TOWNSHIP 52 SOUTH - RANGE 40 EAST



LOCATION MAP
NOT TO SCALE

LEGEND:

BLDG.	= BUILDING	P.G.	= PAGE		= RIGHT OF WAY LINE
C.B.S.	= CONCRETE BLOCK STRUCTURE	℄	= PROPERTY LINE		= PROPERTY LINE
℄	= CENTER LINE	N.T.S.	= NOT TO SCALE		= EASEMENT LINE
CONC.	= CONCRETE	+8.38	= ELEVATION		= IRON FENCE
P.C.	= POINT OF CURVATURE	BL.	= BLOCK		= WOOD FENCE
F.N.D.	= FOUND NAIL/DISK	M	= MONUMENT LINE		= CHAIN LINK FENCE
P.C.C.	= POINT OF COMPOUND CURVE	LP	= LIGHT POLE	OUL OUL	= OVERHEAD UTILITY LINE
℄	= BASELINE	CP	= CONCRETE POWER POLE		= BRICK
N.G.V.D.	= NATIONAL GEODETIC VERTICAL DATUM	F.F.E.	= FINISH FLOOR ELEVATION		= CONCRETE
INV. EL.	= INVERT ELEVATION	S.I.R.	= SET IRON REBAR		= GRAVEL
P.B.	= PLAT BOOK	F.N.	= FOUND NAIL		= TILE
P.C.P.	= PERMANENT CONTROL POINT	F.I.R.	= FOUND IRON REBAR		= PAVEMENT
B/C	= BLOCK CORNER	(M)	= MEASURED VALUE		= CBS WALL
RES.	= RESIDENCE	(R)	= RECORD VALUE		
R/W	= RIGHT OF WAY				
SEC.	= SECTION				
S.I.P.	= SET IRON PIPE				
SWK	= SIDEWALK				

SECTION 5) LIMITATIONS:

Since no other information were furnished other than what is cited in the Sources of Data, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami–Dade County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual who may appear of public records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

SECTION 6) CLIENT INFORMATION:

This Topographic Survey was prepared at the request of and certified to:

SRS ENGINEERING INC.

SECTION 7) SURVEYOR'S CERTIFICATE:

I hereby certify: That this "Topographic Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Topographic Survey" meets the intent of the applicable provisions of the "Standards of Practice for Land Surveying in the State of Florida", pursuant to Rule 5J–17.051 through 5J–17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

HADONNE CORP., a Florida Corporation
Florida Certificate of Authorization Number LB7097

By: _____
Abraham Hadad, PSM
For the Firm
Registered Surveyor and Mapper LS6006
State of Florida

NOTICE: Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.

REVISIONS	
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5.	10.

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TOPOGRAPHIC SURVEY
for
SRS ENGINEERING INC.
of
NW 97 AVE & NW 107 AVE

Job No.:	15058
Field Book:	FILE
DRAWN BY:	LD
TECH BY:	RI
QA/QC BY:	AH

ASSUMED

LEGEND AND ABBREVIATIONS

100 = ELEVATION	C.B.S.= CONCRETE BLOCK STRUCTURE	P.C.C. = POINT OF COMPOUND CURVE	N.T.S. = NOT TO SCALE	(M) = MEASURED VALUE	UE. = UTILITY EASEMENT
DRWY. = DRIVEWAY	CH. = CHORD DISTANCE	M = MONUMENT LINE	Δ = CENTRAL ANGLE	(R) = RECORD VALUE	= WOOD POWER POLE
U.P. = UTILITY POLE	C = CALCULATED VALUE	N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM	= CATCH BASIN	(D) = DEED VALUE	= FIRE HYDRANT
B.O.B. = BASIS OF BEARINGS	(C) = CLEAR	O.E. = OVERHEAD ELECTRIC LINE	= SANITARY SEWER	O/L = OVERHEAD UTILITY LINE	= METAL LIGHT POLE
A/C = AIR CONDITIONING PAD	℄ = CENTERLINE	P.B. = PLAT BOOK	= WATER VALVE	P.I. = POINT OF INTERSECTION	= LIGHT POLE
A = ARC DISTANCE	CONC.= CONCRETE	P.C.P. = PERMANENT CONTROL POINT	F.F.E. = FINISH FLOOR ELEVATION	= WOOD FENCE	= WATER METER
BLDG. = BUILDING	P.R.C.= POINT OF REVERSE CURVE	P.G. = PAGE	L.P. = LIGHT POLE	= CHAIN LINK FENCE	=CONC. POWER POLE
C.B. = CATCH BASIN	P.C. = POINT OF CURVATURE	P.O.B. = POINT OF BEGINNING		= C.B.S. WALL	
	F.N.D.= FOUND NAIL/DISK	P/L = PROPERTY LINE			

0 20 40

SCALE
1" = 40'

TRACT 56

TENTATIVE PLAT OF "COUNTYLINE CORPORATE PARK"

95.0'

15.0'

0.5' CURB

64' ASPHALT PAVEMENT

2' CURB & GUTTER

GRASS

6' CONC. SIDEWALK

COLUMN TYP

COLUMN TYP

CONC.

8' HIGH IRON FENCE

2' CURB & GUTTER

HANDICAP TACTILE STRIP

N.W. 97th AVE

S.E. COR. OF SEC. 17-52-40

R/W

NOT SUBDIVIDED

CONC.

2' CURB & GUTTER

24' ASPHALT PAVEMENT

8' HIGH IRON FENCE

N02°38'12"W

88+00 89+00 90+00 91+00 92+00 93+00

50.0'

15.0'

MATCH LINE A

MATCH LINE B

TRACT 55

40' U.E.
ORB 17740, PG. 3412
40' WEST OF EAST TRACT 55

TENTATIVE PLAT OF "COUNTYLINE CORPORATE PARK"

TRACT 54

R/W

94+00 95+00 96+00 97+00 98+00 99+00

2' CURB & GUTTER

24' ASPHALT PAVEMENT

N.W. 97th AVE

CONC.

POST WIRE FENCE

NOT SUBDIVIDED

REVISIONS	
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for

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of

NW 97 AVE & NW 107 AVE

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LEGEND AND ABBREVIATIONS

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DRWY. = DRIVEWAY	CH. = CHORD DISTANCE	M = MONUMENT LINE	△ = CENTRAL ANGLE	(R) = RECORD VALUE	= UTILITY POLE
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A = ARC DISTANCE	CONC.= CONCRETE	P.C.P. = PERMANENT CONTROL POINT	F.F.E. = FINISH FLOOR ELEVATION	—//— = WOOD FENCE	= WATER METER
BLDG. = BUILDING	P.R.C.= POINT OF REVERSE CURVE	P.G. = PAGE	L.P. = LIGHT POLE	—x— = CHAIN LINK FENCE	= CABLE TV BOX
C.B. = CATCH BASIN	P.C. = POINT OF CURVATURE	P.O.B. = POINT OF BEGINNING		= C.B.S. WALL	
	F.N.D.= FOUND NAIL/DISK	P/L = PROPERTY LINE			

0 20 40

SCALE 1" = 40'

MATCH LINE B

TRACT 53

TRACT 54

FLORIDA FRUIT LANDS COMPANY'S SUBDIVISION NO. 1

TRACT 52

SOUTHEAST CORNER OF SECTION 17-52-40

100+00

101+00

102+00

103+00

104+00

105+00

R/W

℄

2' CURB & GUTTER

24' ASPHALT PAVEMENT

N.W. 97th AVE

N.W. 158th ST.

ROCK ROAD

15.0'

50.0'

N02°38'12"W

CONC.

POST WIRE FENCE

NOT SUBDIVIDED

MATCH LINE C

TRACT 52

TENTAVIVE PLAT OF "COUNTYLINE CORPORATE PARK"

TRACT 51

TRACT 50

106+00

107+00

108+00

109+00

110+00

2' CURB & GUTTER

24' ASPHALT PAVEMENT

N.W. 97th AVE

CONC.

DIRT ROAD

POST WIRE FENCE

NOT SUBDIVIDED

MATCH LINE D

REVISIONS	
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for

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of

NW 97 AVE & NW 107 AVE

Job No.:	15058
Field Book:	FILE
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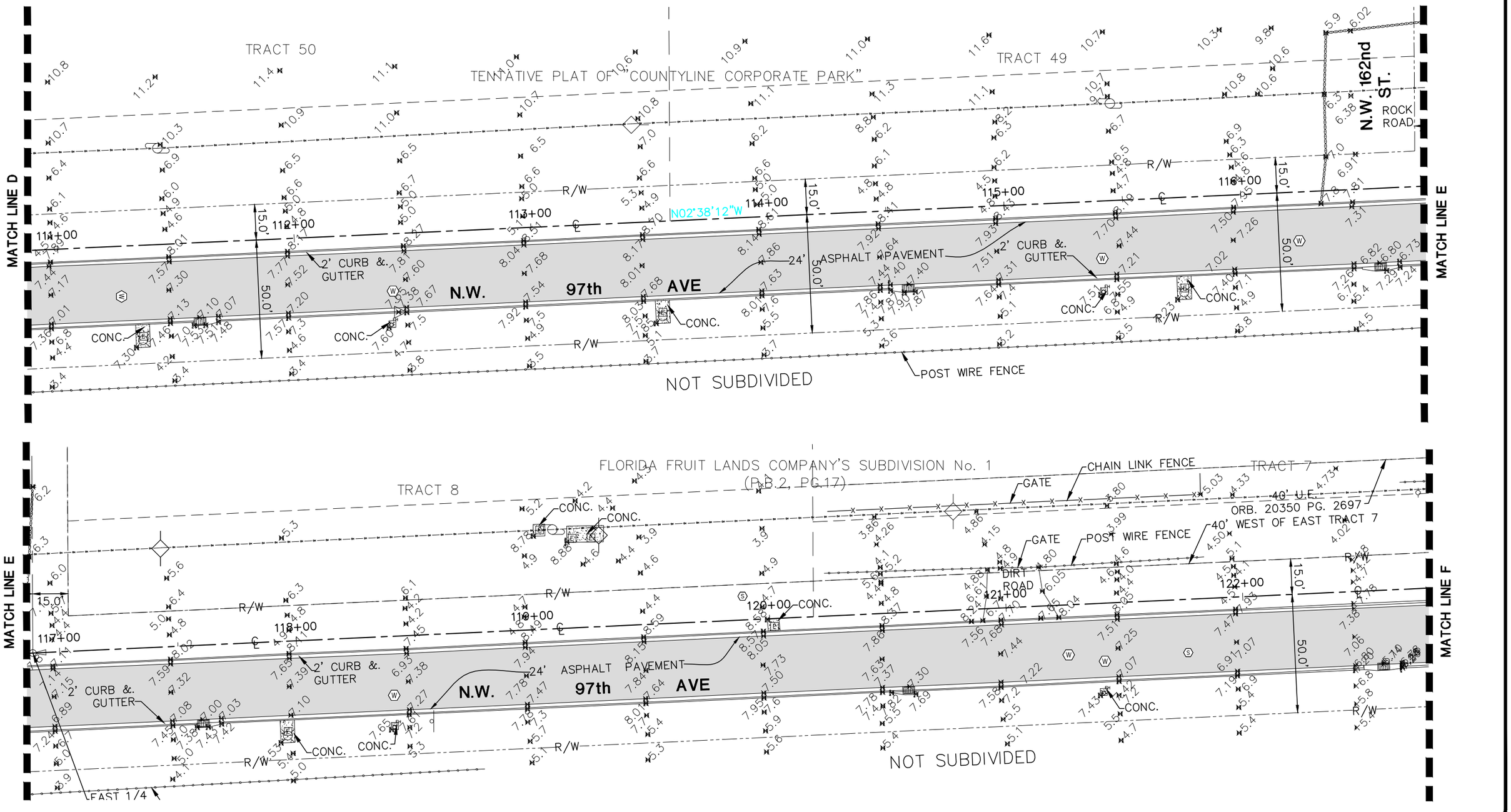
TECH BY:	RI
QA/QC BY:	AH
	3/12

ASSUMED

LEGEND AND ABBREVIATIONS

EL.	= ELEVATION	C.B.S.	= CONCRETE BLOCK STRUCTURE	P.C.C.	= POINT OF COMPOUND CURVE	N.T.S.	= NOT TO SCALE	(M)	= MEASURED VALUE	UE.	= UTILITY EASEMENT
DRWY.	= DRIVEWAY	CH.	= CHORD DISTANCE	ℳ	= MONUMENT LINE	△	= CENTRAL ANGLE	(R)	= RECORD VALUE	○	= UTILITY POLE
U.P.	= UTILITY POLE	C	= CALCULATED VALUE	N.G.V.D.	= NATIONAL GEODETIC VERTICAL DATUM	■	= CATCH BASIN	(D)	= DEED VALUE		= FIRE HYDRANT
B.O.B.	= BASIS OF BEARINGS	(C)	= CLEAR	O.E.	= OVERHEAD ELECTRIC LINE	Ⓢ	= SANITARY SEWER	O/L	= OVERHEAD UTILITY LINE		= METAL LIGHT POLE
A/C	= AIR CONDITIONING PAD	℄	= CENTERLINE	P.B.	= PLAT BOOK	⋈	= WATER VALVE	P.I.	= POINT OF INTERSECTION		= LIGHT POLE
Δ	= ARC DISTANCE	CONC.	= CONCRETE	P.C.P.	= PERMANENT CONTROL POINT	F.F.E.	= FINISH FLOOR ELEVATION		= WOOD FENCE		= WATER METER
BLDG.	= BUILDING	P.R.C.	= POINT OF REVERSE CURVE	P.G.	= PAGE				= CHAIN LINK FENCE		= CABLE TV BOX
C.B.	= CATCH BASIN	P.C.	= POINT OF CURVATURE	P.O.B.	= POINT OF BEGINNING	L.P.	= LIGHT POLE		= C.B.S. WALL		
		F.N.D.	= FOUND NAIL/DISK	P/L	= PROPERTY LINE						

SCALE
1" = 40'



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TECH BY:	RI
QA/QC BY:	AH
	4/12

ASSUMED

0 20 40

SCALE
1" = 40'

LEGEND AND ABBREVIATIONS

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DRWY. = DRIVEWAY	CH. = CHORD DISTANCE	ℳ = MONUMENT LINE	Δ = CENTRAL ANGLE	(R) = RECORD VALUE	= UTILITY POLE
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BLDG. = BUILDING	P.R.C. = POINT OF REVERSE CURVE	P.G. = PAGE		—x— = CHAIN LINK FENCE	= CABLE TV BOX
C.B. = CATCH BASIN	P.C. = POINT OF CURVATURE	P.O.B. = POINT OF BEGINNING	L.P. = LIGHT POLE	= C.B.S. WALL	
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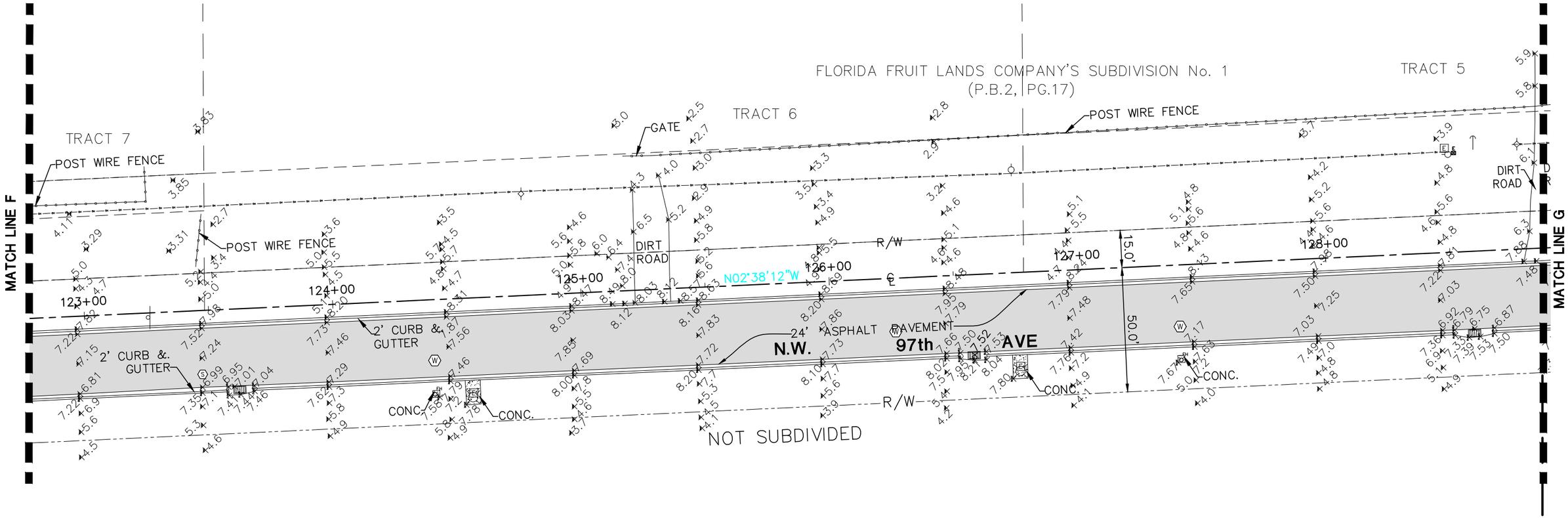

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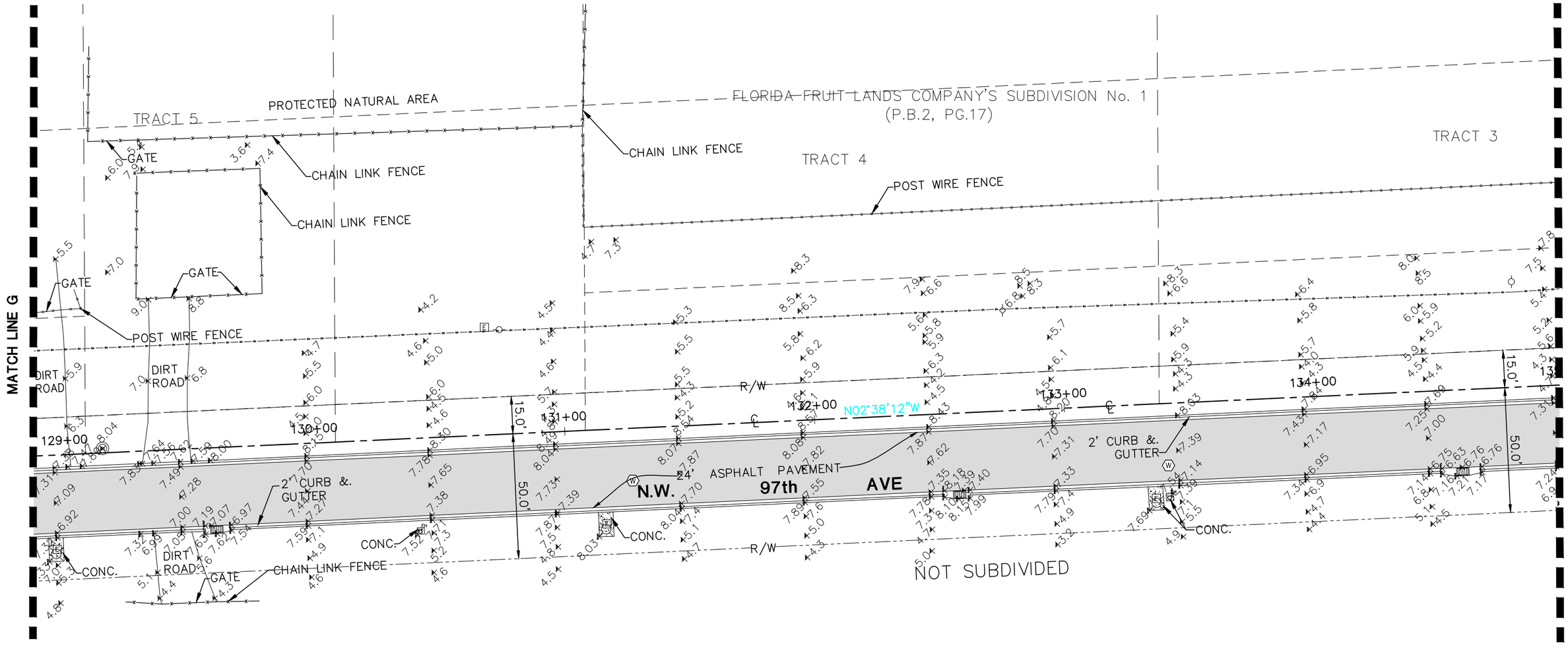
U.P.	= UTILITY POLE	C	= CALCULATED VALUE	N.G.V.D.	= NATIONAL GEODETIC VERTICAL DATUM	■	= CATCH BASIN	(D)	= DEED VALUE	⊠	= FIRE HYDRANT
B.O.B.	= BASIS OF BEARINGS	(C)	= CLEAR	O.E.	= OVERHEAD ELECTRIC LINE	S	= SANITARY SEWER	OUL	= OVERHEAD UTILITY LINE	☀	= METAL LIGHT POLE
A/C	= AIR CONDITIONING PAD	℄	= CENTERLINE	P.B.	= PLAT BOOK	W	= WATER VALVE	P.I.	= POINT OF INTERSECTION	☀	= LIGHT POLE
A	= ARC DISTANCE	CONC.=	CONCRETE	P.C.P.	= PERMANENT CONTROL POINT	F.F.E.	= FINISH FLOOR ELEVATION	—//—	= WOOD FENCE	R305	= WATER METER
BLDG.	= BUILDING	P.R.C.=	POINT OF REVERSE CURVE	P.G.	= PAGE	—x—	= CHAIN LINK FENCE		= C.B.S. WALL		= CABLE TV BOX
C.B.	= CATCH BASIN	P.C. =	POINT OF CURVATURE	P.O.B.	= POINT OF BEGINNING	L.P.	= LIGHT POLE				
		F.N.D.=	FOUND NAIL/DISK	P/L	= PROPERTY LINE						



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of

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TECH BY:	RI
QA/QC BY:	AH
	6/12

ASSUMED

0 20 40

SCALE
1" = 40'

LEGEND AND ABBREVIATIONS

9.99 = ELEVATION	C.B.S.= CONCRETE BLOCK STRUCTURE	P.C.C. = POINT OF COMPOUND CURVE	N.T.S. = NOT TO SCALE	(M) = MEASURED VALUE	UE. = UTILITY EASEMENT
DRWY. = DRIVEWAY	CH. = CHORD DISTANCE	M = MONUMENT LINE	△ = CENTRAL ANGLE	(R) = RECORD VALUE	= UTILITY POLE
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B.O.B. = BASIS OF BEARINGS	(C) = CLEAR	O.E. = OVERHEAD ELECTRIC LINE	= SANITARY SEWER	O/L = OVERHEAD UTILITY LINE	= METAL LIGHT POLE
A/C = AIR CONDITIONING PAD	℄ = CENTERLINE	P.B. = PLAT BOOK	= WATER VALVE	P.I. = POINT OF INTERSECTION	= LIGHT POLE
A = ARC DISTANCE	CONC.= CONCRETE	P.C.P. = PERMANENT CONTROL POINT	F.F.E. = FINISH	—o— = WOOD FENCE	= WATER METER
BLDG. = BUILDING	P.R.C.= POINT OF REVERSE CURVE	P.G. = PAGE	FLOOR ELEVATION	—x— = CHAIN LINK FENCE	= CABLE TV BOX
C.B. = CATCH BASIN	P.C. = POINT OF CURVATURE	P.O.B. = POINT OF BEGINNING	L.P. = LIGHT POLE	= C.B.S. WALL	
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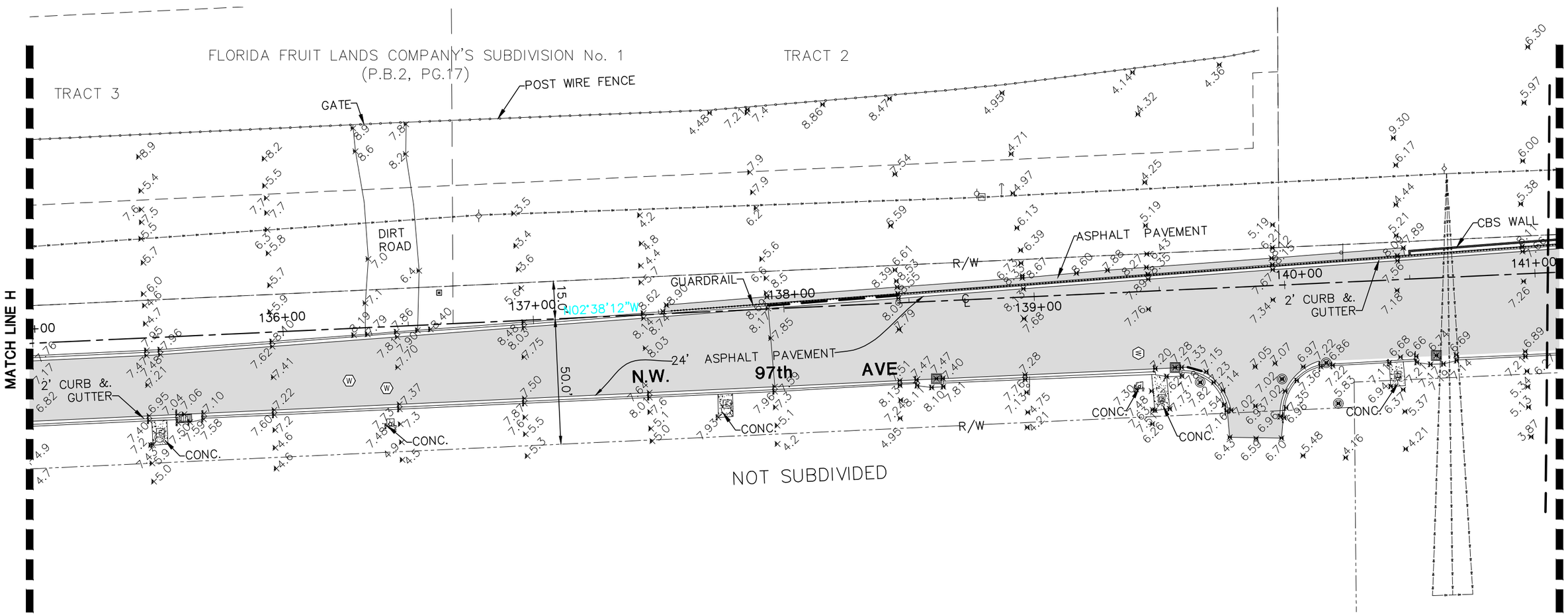

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0 20 40

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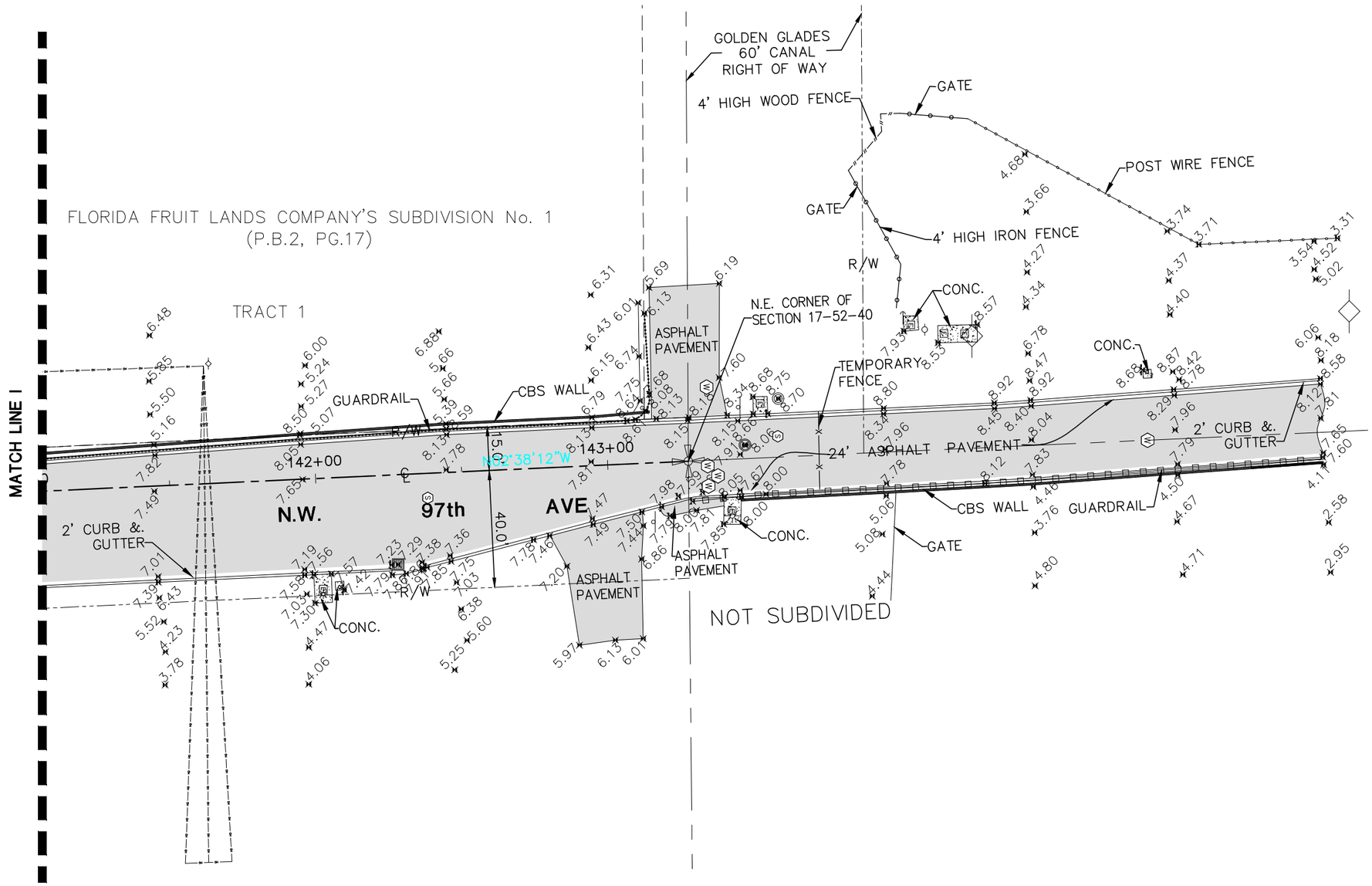

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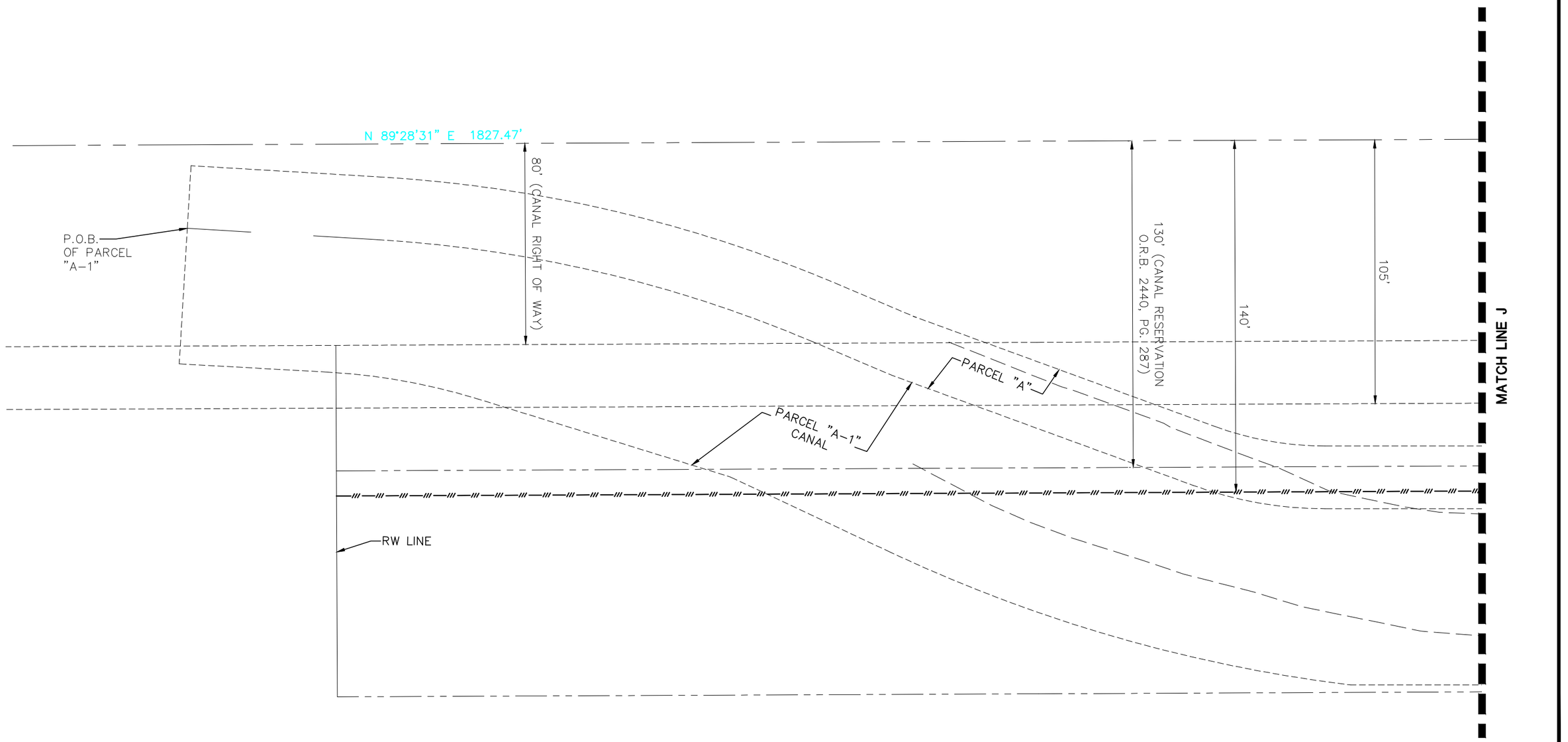

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1" = 40'

LEGEND AND ABBREVIATIONS

⊕ = ELEVATION	C.B.S.= CONCRETE BLOCK STRUCTURE	P.C.C. = POINT OF COMPOUND CURVE	N.T.S. = NOT TO SCALE	(M) = MEASURED VALUE	UE. = UTILITY EASEMENT
DRWY. = DRIVEWAY	CH. = CHORD DISTANCE	ℳ = MONUMENT LINE	△ = CENTRAL ANGLE	(R) = RECORD VALUE	= UTILITY POLE
U.P. = UTILITY POLE	C = CALCULATED VALUE	N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM	■ = CATCH BASIN	(D) = DEED VALUE	= FIRE HYDRANT
B.O.B. = BASIS OF BEARINGS	(C) = CLEAR	O.E. = OVERHEAD ELECTRIC LINE	= SANITARY SEWER	O/L = OVERHEAD UTILITY LINE	= METAL LIGHT POLE
A/C = AIR CONDITIONING PAD	℄ = CENTERLINE	P.B. = PLAT BOOK	= WATER VALVE	P.I. = POINT OF INTERSECTION	= LIGHT POLE
A = ARC DISTANCE	CONC.= CONCRETE	P.C.P. = PERMANENT CONTROL POINT	F.F.E. = FINISH FLOOR ELEVATION	= WOOD FENCE	= WATER METER
BLDG. = BUILDING	P.R.C.= POINT OF REVERSE CURVE	P.G. = PAGE		= CHAIN LINK FENCE	= CABLE TV BOX
C.B. = CATCH BASIN	P.C. = POINT OF CURVATURE	P.O.B. = POINT OF BEGINNING	L.P. = LIGHT POLE	= C.B.S. WALL	
	F.N.D.= FOUND NAIL/DISK	P/L = PROPERTY LINE			

N.W. 170th STREET

MATCH LINE J

MATCH LINE K

NORTH LINE OF SECTION 16-52-40

N 89°28'31" E 1827.47'

N 89°28'31" E 1827.47'

80' (CANAL RIGHT OF WAY)

130' (CANAL RESERVATION O.R.B. 2440, PG. 287)

140'

105'

80' (CANAL RIGHT OF WAY)

25' DRAINAGE EASEMENT (O.R.B. 5591, PG. 24)

PARCEL A (26262, PG. 144)

RW LINE

CANAL RESERVATION (26262, PG. 144)

PARCEL "A-1" CANAL

80'

RW LINE

REVISIONS	
1.	6.
2.	7.
3.	8.
4.	9.
5.	10.

HADONNE
LAND SURVEYOR AND MAPPERS
3D LASER SCANNING
UTILITY COORDINATION
SUBSURFACE UTILITY ENGINEERING
1985 NW 88th Court, Suite 201 · Doral, Fl 33172 · P: +1(305)266-1188 · F: +1(305)207-6845 · W: www.hadonne.com

TOPOGRAPHIC SURVEY

for

SRS ENGINEERING INC.

of

NW 97 AVE & NW 107 AVE

Job No.:	15058
Field Book:	FILE
DRAWN BY:	LD
TECH BY:	RI
QA/QC BY:	AH

10/12

ASSUMED

0 20 40

SCALE
1" = 40'

LEGEND AND ABBREVIATIONS

100.00 = ELEVATION	C.B.S.= CONCRETE BLOCK STRUCTURE	P.C.C. = POINT OF COMPOUND CURVE	N.T.S. = NOT TO SCALE	(M) = MEASURED VALUE	UE. = UTILITY EASEMENT
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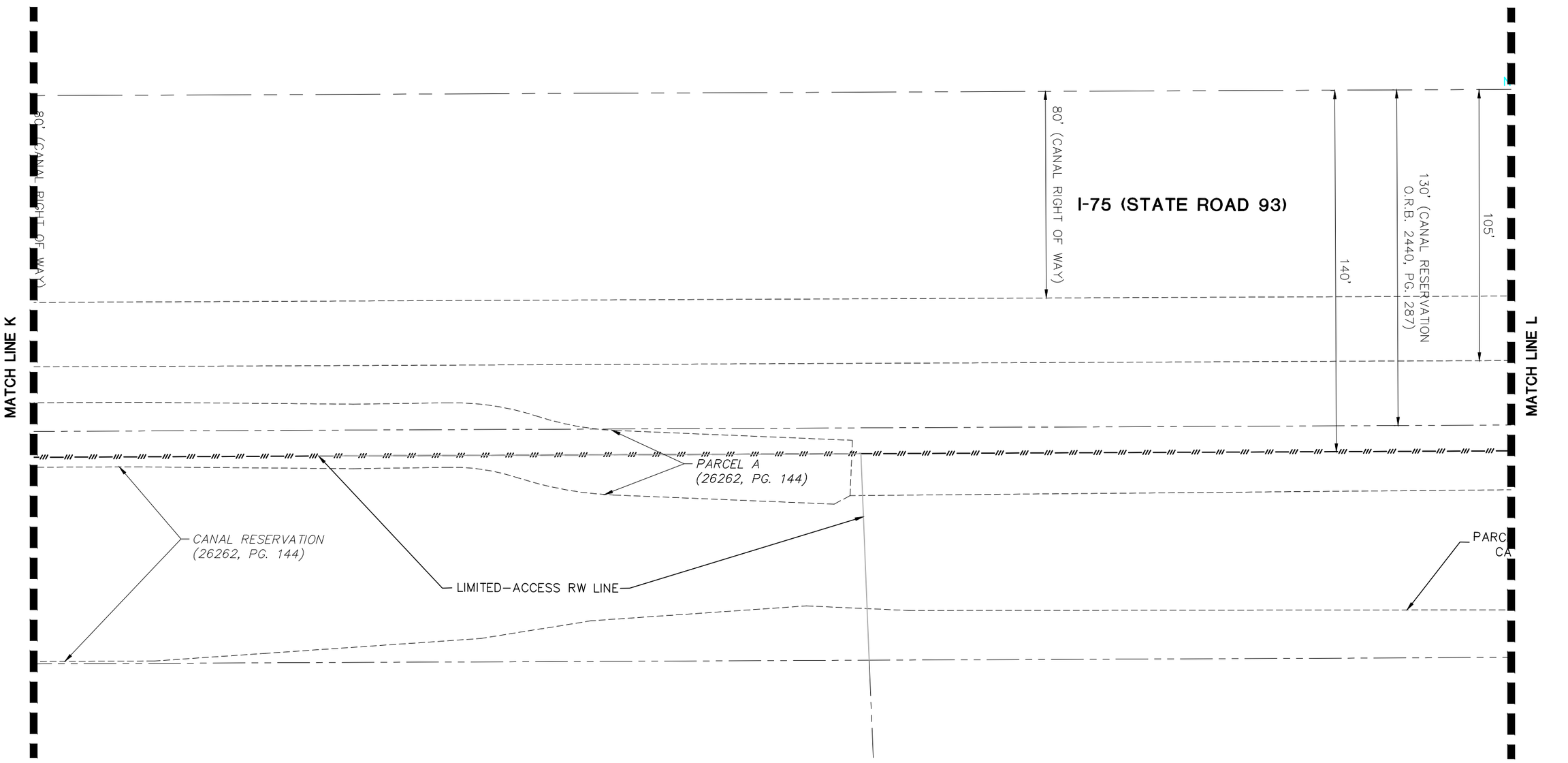
	F.N.D.= FOUND NAIL/DISK	P/L = PROPERTY LINE			

N.W. 170th STREET



REVISIONS	
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TOPOGRAPHIC SURVEY

for

SRS ENGINEERING INC.

of

NW 97 AVE & NW 107 AVE

Job No.:	15058
Field Book:	FILE
DRAWN BY:	LD
TECH BY:	RI
QA/QC BY:	AH
	11/12

ASSUMED

0 20 40

SCALE
1" = 40'

LEGEND AND ABBREVIATIONS

0.00	= ELEVATION	C.B.S.	= CONCRETE BLOCK STRUCTURE	P.C.C.	= POINT OF COMPOUND CURVE	N.T.S.	= NOT TO SCALE	(M)	= MEASURED VALUE	UE.	= UTILITY EASEMENT
DRWY.	= DRIVEWAY	CH.	= CHORD DISTANCE	M/L	= MONUMENT LINE	△	= CENTRAL ANGLE	(R)	= RECORD VALUE		= UTILITY POLE
U.P.	= UTILITY POLE	C	= CALCULATED VALUE	N.G.V.D.	= NATIONAL GEODETIC VERTICAL DATUM	■	= CATCH BASIN	(D)	= DEED VALUE		= FIRE HYDRANT
B.O.B.	= BASIS OF BEARINGS	(C)	= CLEAR	O.E.	= OVERHEAD ELECTRIC LINE	Ⓢ	= SANITARY SEWER	OUL	= OVERHEAD UTILITY LINE	MLP	= METAL LIGHT POLE
A/C	= AIR CONDITIONING PAD	℄	= CENTERLINE	P.B.	= PLAT BOOK	WV	= WATER VALVE	P.I.	= POINT OF INTERSECTION	LP	= LIGHT POLE
A	= ARC DISTANCE	CONC.	= CONCRETE	P.C.P.	= PERMANENT CONTROL POINT	F.F.E.	= FINISH FLOOR ELEVATION	—//—	= WOOD FENCE	WM	= WATER METER
BLDG.	= BUILDING	P.R.C.	= POINT OF REVERSE CURVE	P.G.	= PAGE	L.P.	= LIGHT POLE	—x—	= CHAIN LINK FENCE	CATV	= CABLE TV BOX
C.B.	= CATCH BASIN	P.C.	= POINT OF CURVATURE	P.O.B.	= POINT OF BEGINNING				= C.B.S. WALL		
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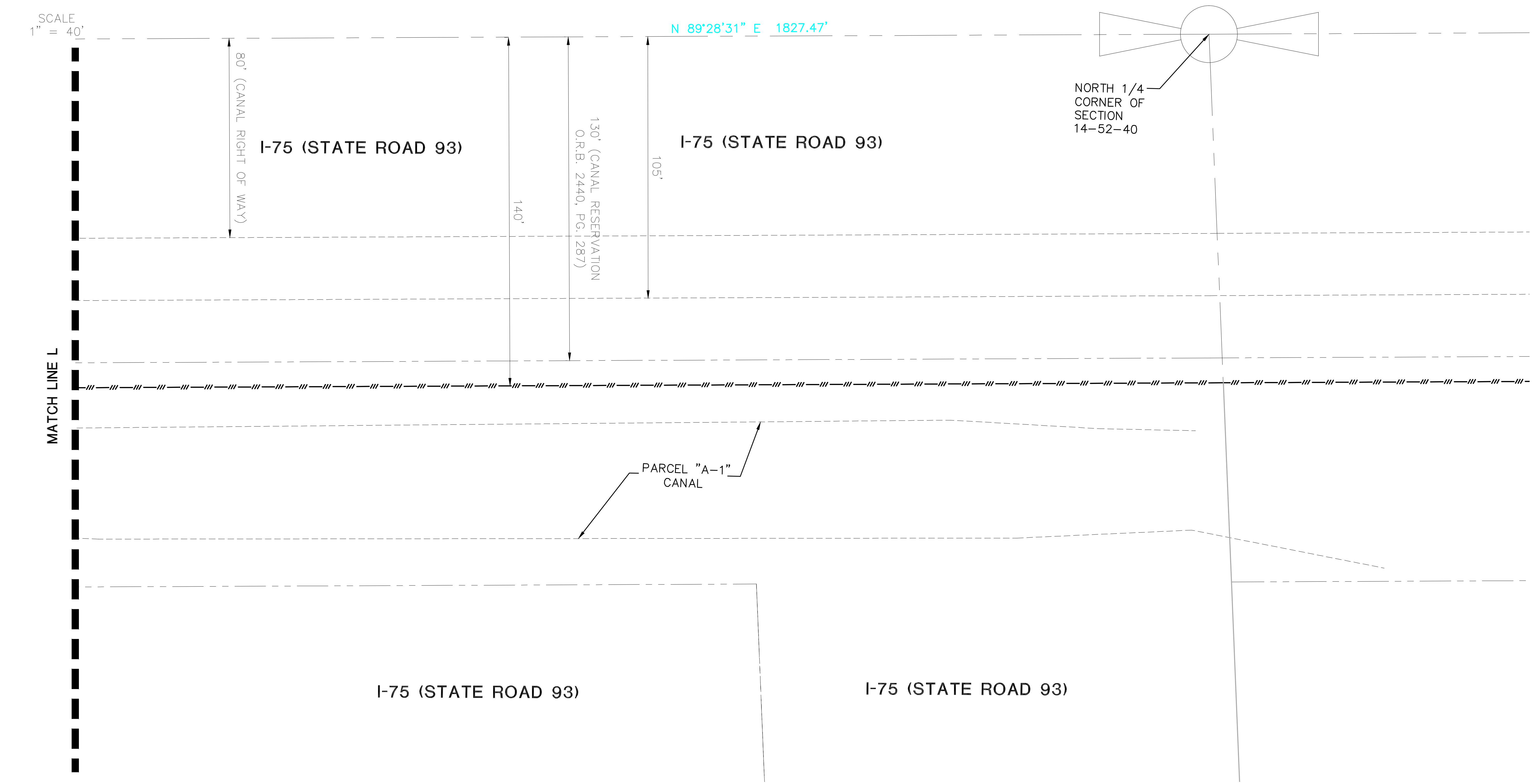

REVISIONS	
1.	6.
2.	7.
3.	8.
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5.	10.

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TOPOGRAPHIC SURVEY
for
SRS ENGINEERING INC.
of
NW 97 AVE & NW 107 AVE

Job No.:	15058
Field Book:	FILE
DRAWN BY:	LD
TECH BY:	RI
QA/QC BY:	AH

12/12

Attachment 4

KEY NOTES

1. EXISTING FLORIDA POWER AND LIGHT COMPANY UTILITY POLE WITH TRANSFORMER FOR STREET LIGHTING TO BE REMOVED AND RELOCATED AS COORDINATED WITH FLORIDA POWER AND LIGHT COMPANY REPRESENTATIVE.

2. EXISTING ELECTRICAL SERVICE POST AND SERVICE DISCONNECT SWITCH FOR STREET LIGHTING TO BE REMOVED ALONG WITH RELATED SERVICE LATERAL RUNNING TO EXISTING UTILITY POLE. EXTRACT CONDUCTORS FROM THE CONDUIT, CUT CONDUIT TO BELOW GRADE AND ABANDON.

3. EXISTING LIGHTING CIRCUIT AND RELATED PULL BOX TO BE REMOVED. EXTRACT CONDUCTORS FROM THE CONDUIT, CUT CONDUIT TO BELOW GRADE AND ABANDON.

4. EXISTING "END OF CIRCUIT" STREET LIGHTING POLE # 13 AND RELATED HAND-HOLE TO REMAIN.

5. EXISTING STREET LIGHTING CIRCUIT RUNNING SOUTH TO POLE # 12 THROUGH TO REMAIN. THIS LIGHTING CIRCUIT IS NOT AFFECTED BY THE SCOPE OF WORK RELATED TO THIS PROJECT.

6. EXISTING "BEGINNING OF CIRCUIT" STREET LIGHTING POLE # 14 AND RELATED HAND-HOLE TO REMAIN.

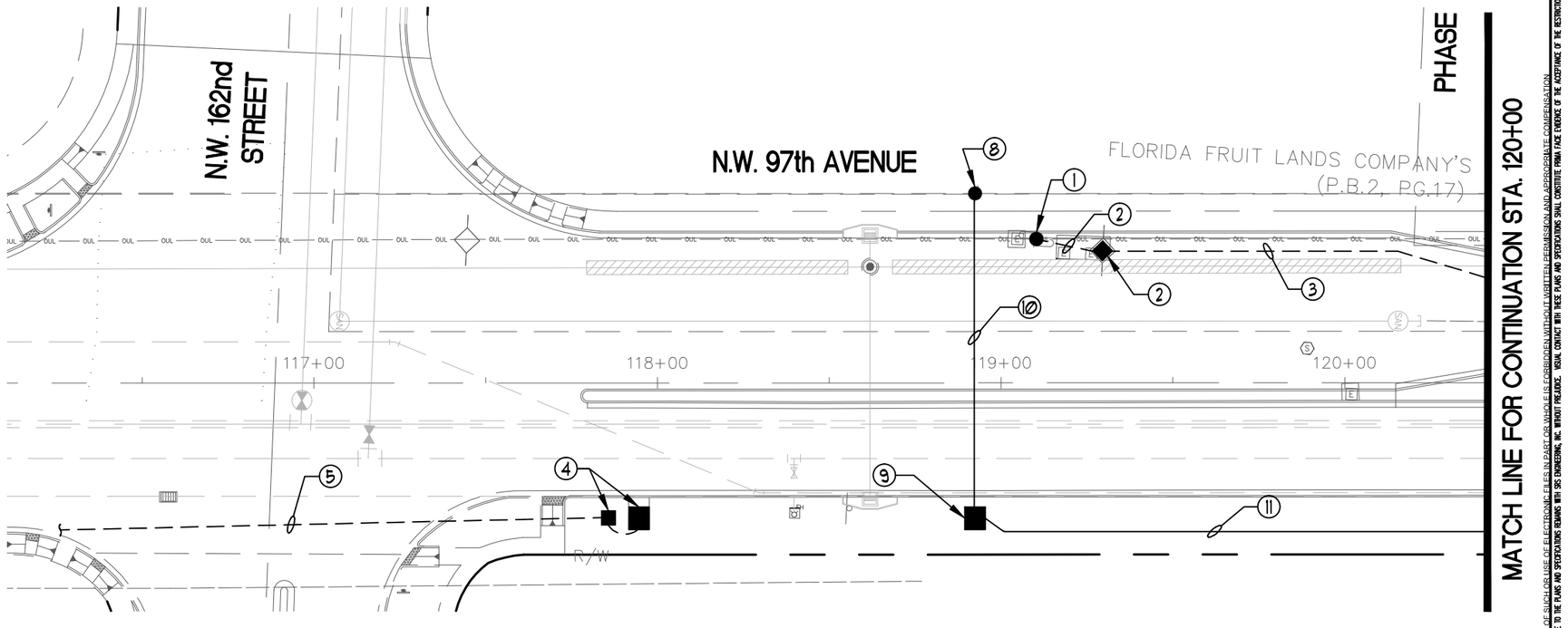
7. EXISTING STREET LIGHTING CIRCUIT (2 # 6 AND 1 # 6 (G) THWN COPPER IN 2" CONDUIT) RUNNING NORTH TO STREET LIGHTING POLES # 14 THROUGH # 25 TO REMAIN. THIS PORTION OF THE EXISTING LIGHTING CIRCUIT IS NOT AFFECTED BY THE SCOPE OF WORK RELATED TO THIS PROJECT.

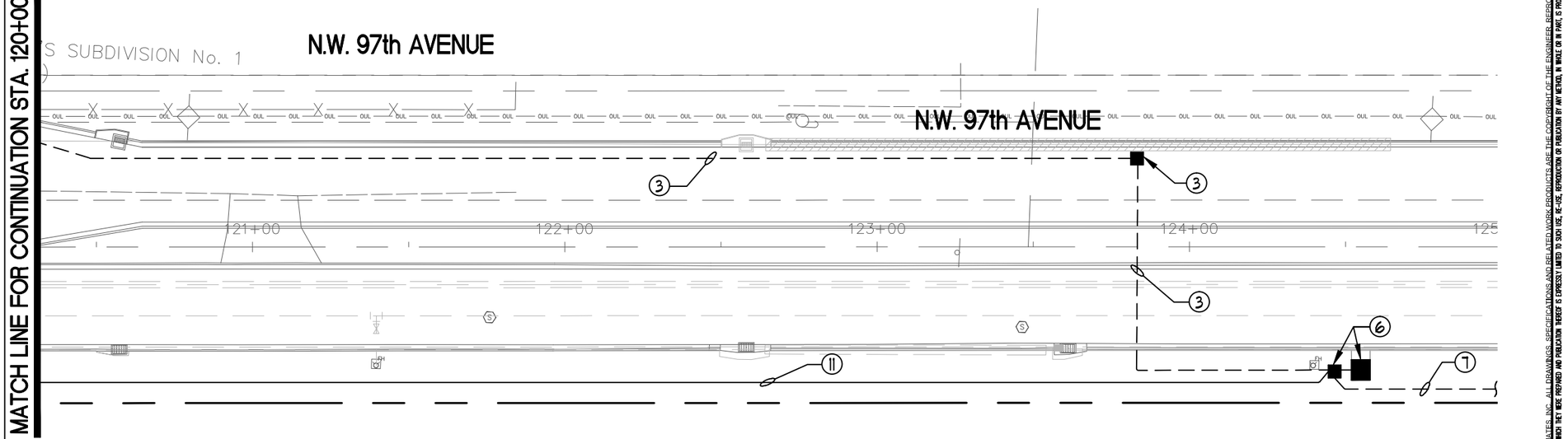
8. PROPOSED LOCATION OF FLORIDA POWER AND LIGHT COMPANY UTILITY POLE WITH TRANSFORMER FOR STREET LIGHTING. COORDINATE WITH FLORIDA POWER AND LIGHT COMPANY REPRESENTATIVE.

9. PROPOSED LOCATION OF NEW ELECTRICAL SERVICE POST AND ELECTRICAL SERVICE DISCONNECT SWITCH FOR STREET LIGHTING.

10. NEW ELECTRICAL SERVICE LATERAL.

11. NEW STREET LIGHTING CIRCUIT (2 # 6 AND 1 # 6 (G) THWN COPPER IN 2" CONDUIT) RUNNING TO EXISTING HAND-HOLE RELATED TO STREET LIGHTING POLE # 14. PROVIDE CONNECTION TO EXISTING STREET LIGHTING CIRCUIT CONDUCTORS AT THIS HAND-HOLE.





0 40' 80'

Project No.- 17060

BASULTO ASSOCIATES CONSULTING ENGINEERS
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REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.Y.
DRAWN BY: D.T.
CHECKED BY: C.Y.
DATE: 06/2017

SEAL:

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WWW.SRS-CORP.COM
CONSULTING ENGINEERS EB-00007317

CITY OF HIALEAH
ROADWAY AND DRAINAGE IMPROVEMENTS
ALONG N.W. 97th AVENUE (WEST 36th AVENUE)
FROM N.W. 162nd STREET TO N.W. 170th STREET (PHASE II)

PARTIAL ELECTRICAL SITE PLAN
FROM STA. 117+75 TO STA. 124+00

SCALE: AS SHOWN
PROJECT NO.: 1607
DWG. NO.: E-1
SHEET: E-1

LOCATION: S:\Serrato\Hialeah Street Lighting\NW 97th Ave Service Point Relocation\Electrical\17060-E-1.0-Site Plan.dwg | PRINTED: Thursday, December 14, 2017, 3:46:10 PM |

GENERAL NOTES

1. THE MAINTENANCE OF TRAFFIC FOR THE PROJECT SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (USDOT, FHWA). ATTENTION IS DIRECTED TO INDEX NOS. 600, 612, AND 623 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS (BOOKLET DATED JANUARY 2000).

2. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.

3. ANY NGVD-29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL NOTIFY:

GEODETIC INFORMATION CENTER
ATTN: MARK MAINTENANCE SECTION
6001 EXECUTIVE BOULEVARD ROCKVILLE,
MARYLAND 20852
TELEPHONE NO. (301) 443-8319

4. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED, IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND NOT BEEN PROPERLY REFERENCED. THE PROJECT ENGINEER SHOULD NOTIFY THE DISTRICT ADMINISTRATOR OF SURVEY AND MAPPING WITHOUT DELAY BY TELEPHONE.

5. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR AND UTILITY OWNERS DURING CONSTRUCTION.

6. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.

7. FORTY-EIGHT HOURS PRIOR TO DIGGING THE CONTRACTOR SHALL CALL SUNSHINE STATE OF FLORIDA, TELEPHONE NUMBER 1-800-432-4770, AND THE UTILITY OWNER AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT DURING UTILITY COMPANY LOCATIONS OF THEIR FACILITIES.

UTILITY OWNERS: CONTACT PHONE #
FPL ANA ABAUNZA (305) 552-3608
BELLSOUTH
CITY OF HIALEAH GEORGE GUANCHEZ (305) 687-2620
CONSTRUCTION & MAINTENANCE.

8. SEVEN COPIES OF SHOP DRAWINGS AND DESIGN DATA SHALL BE SUBMITTED TO THE ENGINEER OF RECORD WITH A COPY OF THE SUBMITTAL LETTER SENT TO CITY OF HIALEAH. ALLOW A 45-DAY TURNAROUND FOR SUBMITTALS.

9. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR MATERIAL PROPOSED FOR THE PROJECT AND SHALL INCLUDE, BUT NOT BE LIMITED TO:

A) LUMINAIRE AND LUMINAIRE PHOTOMETRICS. SUBMITTAL SHALL INCLUDE A COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT-CANDLE LEVELS TO BE OBTAINED USING THE SUBMITTED LUMINARIES ON THE PROJECT.
B) CONDUCTORS, CONDUIT, GROUND RODS AND PULL BOXES.
C) FUSES, FUSE HOLDERS, SURGE PROTECTORS.
D) SAFETY SWITCHES, PANELS, CIRCUIT BREAKERS AND OTHER MAJOR SERVICE POINT COMPONENTS.
E) LIGHTING POLES INCLUDING ARMS.
F) FOUNDATIONS.
G) COPIES OF ALL WARRANTIES FROM THE MANUFACTURER

10. ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE AND THE STATE OF FLORIDA DOT STANDARD SPECIFICATIONS FOR READ AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER NEC REQUIREMENTS.

11. HANDHOLE COVERS FOR POLES AND TRANSFORMER BASES SHALL BE LOCATED OPPOSITE APPROACHING TRAFFIC.

12. ENDS OF CONDUIT SHALL BE SEALED WITH POLYURETHANE FOAM AFTER WIRING IS COMPLETE.

13. GROUND RODS TO BE INSTALLED AT EACH PULL BOX AND #8 THW GREEN BONDED TO IT.

14. SYSTEM SHALL BE GROUNDED WITH #3 THWN GREEN INSULATION RUN INSIDE CONDUIT.

15. PULL BOXES SHALL HAVE EXTERIOR DIMENSIONS OF 27"X 18" X 12" AND SHALL BE REINFORCED CONCRETE WITH HEAVY-DUTY TRAFFIC COVERS. PROVIDE 20 FT MIN. GROUND ELECTRODE AT EACH PULL BOX. COVERS TO BE PROVIDED WITH GROUND LUG AND MARKED "STREET LIGHTING".

16. INSTALL #8 GREEN INSULATED PIGTAIL ON PULL BOX COVER AND CONNECT TO GROUND ROD.

17. PULL BOX COVER BOLTED TO PULL BOX USING TAMPER PROOF NUT.

18. LIGHTING POLE ARM TO BE DAVIT STYLE.

19. SERVICE LOAD CENTER SHALL BE 480 VOLTS 60 AMPS, 2 POLES AND SOLID NEUTRAL BUS BAR, HEAVY-DUTY SAFETY SWITCH FUSIBLE IN NEMA 4X ENCLOSURE WITH LOCKABLE COVER, AS PER THE COUNTY MAINTENANCE AGENCY. LOAD CENTER TO BE FURNISHED WITH SURGE ARRESTOR PER STANDARD INDEX 17504.

20. SPECIAL ATTENTION IS DIRECTED TO SECTIONS 715-12 AND 715-15 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2000, FOR LABELING OF EQUIPMENT AND TRANSFER OF WARRANTIES.

21. THE CONTRACTOR SHALL MEASURE THE GROUND ROD RESISTANCE AT EACH POLE, PULL BOX AND SERVICE POINT. THE RESISTANCE SHALL BE RECORDED AND A COPY GIVEN TO PROJECT ENGINEER FOR HIS RECORD. COST OF SUCH WORK IS INCIDENTAL TO PAY ITEM 620-1-1.

22. THE CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL DEMONSTRATE SAME BY MEGGER TEST. TEST SHALL BE PERFORMED BEFORE CONNECTION TO BALLAST. THE INSULATION RESISTANCE TEST SHALL INDICATE ANY FAULTY INSULATION. IF ANY, THE CONTRACTOR SHALL LOCATE THE POINTS OF SUCH INSULATION, PULL THE CONDUCTOR AT FAULT, AND REPLACE SAME WITH NEW, AT HIS EXPENSE. THE ELIMINATION OF SUCH FAULT SHALL BE DEMONSTRATED BY FURTHER TESTING. COST OF SUCH WORK IS INCIDENTAL TO PAY ITEMS WITH THE PREFIX 715-1-.

23. IDENTIFICATION PLATES ARE TO BE INSTALLED ON ALL POLES. PLATES SHALL CONTAIN THE FOLLOWING INFORMATION: CIRCUIT NUMBER AND POLE NUMBER AS SHOWN ON THE POLE DATA SHEET. IDENTIFICATION PLATES SHALL BE PLACED AT BACK OF POLE. COST OF SUCH ITEM IS INCIDENTAL TO PAY ITEM 715-511-150. SEE SECTION 715-10.5 OF THE STANDARD SPECIFICATIONS.

24. THE CONTRACTOR SHALL MAINTAIN TWO COMPLETE SETS OF AS-BUILT PLANS INDICATING ALL CHANGES AND DEVIATIONS FROM PROPOSED CONSTRUCTION. USE COLOR PEN OR PENCIL TO MARK CHANGES AT TIME OF EXECUTION. THE COMPLETED SETS SHALL BE GIVEN TO THE MAINTAINING AGENCY.

25. NOT USED.

26. THE CONTRACTOR SHALL COORDINATE WITH ROADWAY CONTRACTOR FOR INSTALLATION OF CONDUIT PRIOR TO INSTALLATION OF NEW SIDEWALK. THE LIGHTING POLES ARE TO BE INSTALLED AT THE BACK OF SIDEWALK AND LOCATED WITHIN THE RIGHT OF WAY LINES.

PAY ITEM NO.	DESCRIPTION	UNIT	E-1		GRAND TOTAL
			PLAN	FINAL	
400-1-15	CLASS I CONCRETE (MISCELLANEOUS)	CY	0		0
620-1-1	GROUNDING ELECTRODE	EA.	2		2
715-1-113	CONDUCTORS (INSULATED) (NO.6)	LF	2100		2100
715-2-111	CONDUIT (3/4" PVC-SCHEDULE 40) (UNDERGROUND)	LP	10		10
715-2-115	CONDUIT (2" PVC-SCHEDULE 40) (UNDERGROUND)	LF	540		540
715-2-215	CONDUIT (2" PVC-SCHEDULE 40) (UNDERPAVEMENT)	LF	100		100
715-14-11	PULL BOX (ROADSIDE)	EA	2		2
715-511-150	LIGHTING POLE COMPLETE (F&I), SINGLE ARM, SHOULDER MNTD, ALUM. 45FT	EA	0		0
715-550-000	LIGHTING POLE COMPLETE (REMOVE)	EA	0		0
715-550-001	LIGHT FIXTURE REMOVE (POLE REMAINS)	EA	0		0
715-7-11	LOAD CENTER (SECONDARY VOLTAGE)	EA	1		1

PAY ITEM NOTES

ITEM NO. 620-1-1 INCLUDES THE COST OF FURNISHING AND INSTALLING 10 FT. OF GROUND ROD AT EACH PULL BOX, EACH LIGHT POLE PULL BOX, AND AT EACH SERVICE POINT. (MIAMI-DADE COUNTY MAINTENANCE AGENCY REQUIREMENT)

ITEM NO. 715-1-113 PAY ITEM FOR CONDUCTOR SHALL BE BASED ON THE LINEAR FEET OF SINGLE CONDUCTOR IN HORIZONTAL MEASUREMENT. NO ALLOWANCE SHALL BE MADE FOR CONNECTION IN PULL BOXES AND CABINETS. ALL CONDUCTOR USE THWN.

ITEM NO. 715-2-115 PAY ITEM FOR CONDUIT SHALL BE BASED ON THE HORIZONTAL PATH OF THE INSTALLED CONDUIT AS MEASURED BETWEEN THE CENTER OF PULL BOXES, CABINETS, ETC. NO ALLOWANCE SHALL BE MADE FOR SWEEPS OR VERTICAL DISTANCES ABOVE OR BELOW GROUND. INCLUDES CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING AND BACKFILL AS PER THE PLANS AND THE STANDARD INDEXES. ALSO INCLUDES THE COST OF RESTORING CUT PAVEMENT, SIDEWALKS, SOD AND ETC., TO ITS ORIGINAL CONDITION.

ITEM NO. 715-511-150 INCLUDES THE COST OF FURNISHING AND INSTALLING THE POLE, BRACKET ARM. LUMINAIRE WITH LAMP, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, FRANGIBLE BASE, CONCRETE FOUNDATION PER PLANS AND STANDARD INDEXES.

ITEM NO. 715-550-000 SHALL INCLUDE THE REMOVAL, DISASSEMBLY (POLE ARM & LUMINAIRE) AND DELIVERY AND UNLOADING TO DADE COUNTY MAINTENANCE YARD AT 7100 NW 36 ST, MIAMI FL 33166. PROJECT ENGINEER SHALL CALL GARFIELD PERRY AT DADE COUNTY YARD PHONE (305) 595-3580 EXT. 235 TWENTY FOUR HOURS PRIOR TO DELIVERY.

ITEM NO. 715-14-11 INCLUDES PULL BOXES INSTALLED AT BASE OF EACH POLE, ELECTRICAL SERVICE AND ALL SPLICE POINTS.

Project No.- 17060

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305.698.3988, fax: 305.698.3989

LOCATION: S:\Serrato\Hialeah Street Lighting\NW 97th Ave Service Point Relocation\Electrical\17060-E-2-Notes.dwg | PRINTED: Thursday, December 14, 2017, 3:46:11 PM |

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.S.Y.
DRAWN BY: D.T.
CHECKED BY: C.R.I.B.
DATE: 06/2017

SEAL:

SRS ENGINEERING, INC.
5001 Southwest 74th Court, Suite 201
Miami, Florida 33155-4453
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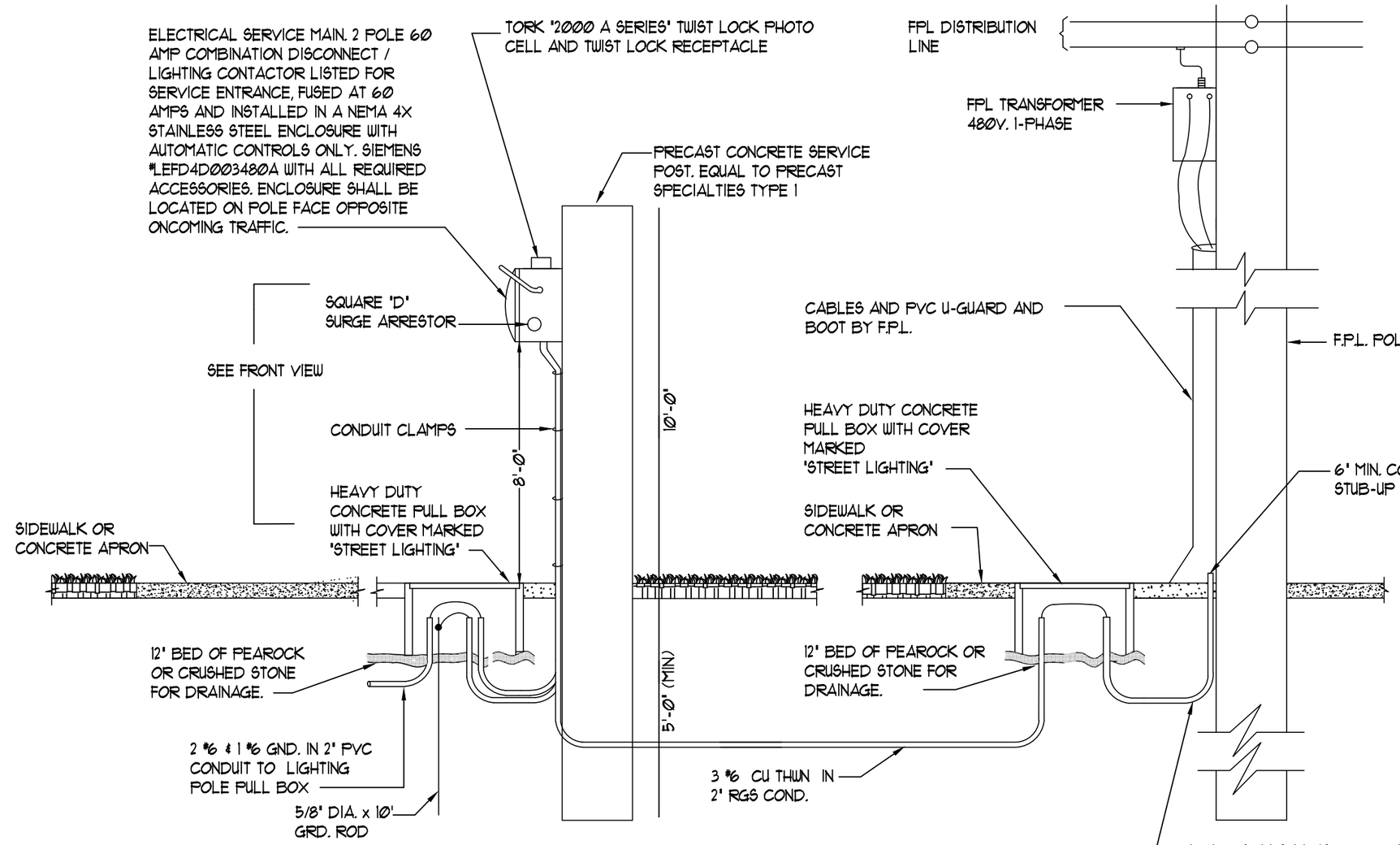
WWW.SRS-CORP.COM
CONSULTING ENGINEERS EB-00007317

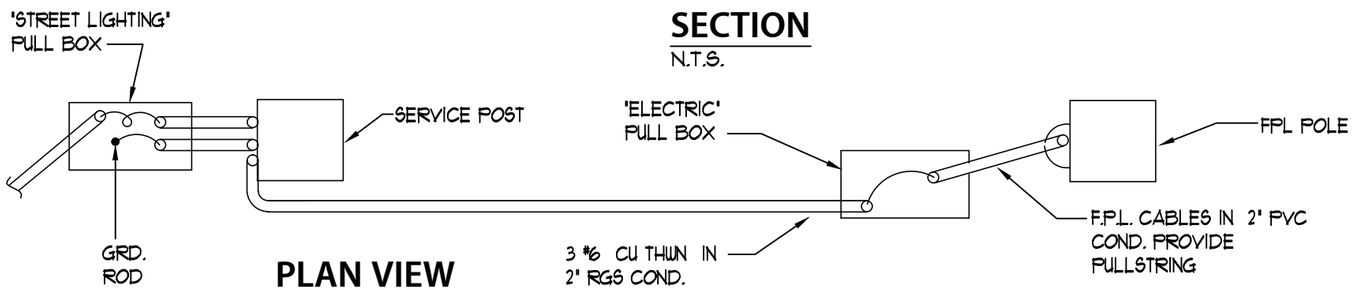
CITY OF HIALEAH
ROADWAY AND DRAINAGE IMPROVEMENTS
ALONG N.W. 97th AVENUE (WEST 36th AVENUE)
FROM N.W. 162nd STREET TO N.W. 170th STREET (PHASE II)

ROADWAY SERVICE POINT NOTES

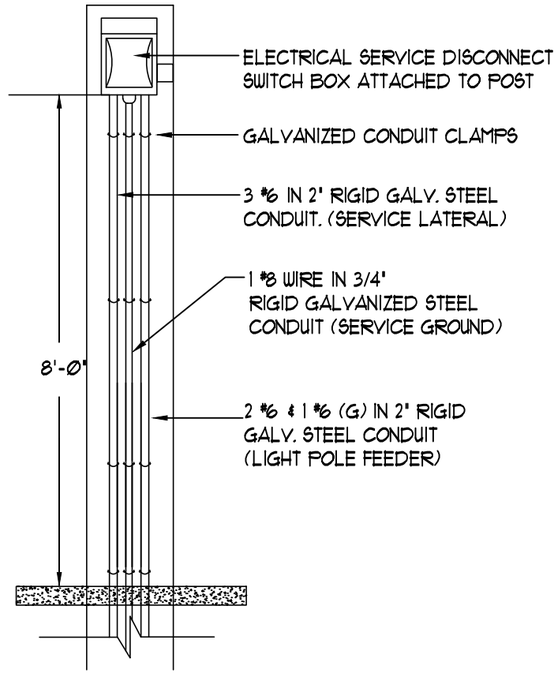
SCALE: AS SHOWN
PROJECT NO.: 1607
DWG. NO.: E-2
SHEET: E-2



SECTION
N.T.S.



PLAN VIEW
N.T.S.



FRONT VIEW
N.T.S.

LOAD SUMMARY 480 VOLTS, 1Φ - SERVICE POINT 'A	
12 LIGHTS @ 455 VA. EA.	= 5.5 KVA
5.5 KVA X 1.25 FOR CONTINUOUS LOAD	= 6.9 KVA
TOTAL SERVICE CAPACITY	= 14 AMPS = 60 AMPS

SERVICE POINT DETAILS
N.T.S.

Project No.- 17060

BASULTO ASSOCIATES CONSULTING ENGINEERS
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REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.S.Y.
DRAWN BY: D.J.T.
CHECKED BY: C.R.I.B.
DATE: 06/2017

SEAL:

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EB-00007317

CITY OF HIALEAH
ROADWAY AND DRAINAGE IMPROVEMENTS
ALONG N.W. 97th AVENUE (WEST 36th AVENUE)
FROM N.W. 162nd STREET TO N.W. 170th STREET (PHASE II)

ROADWAY LIGHTING DETAILS

SCALE: AS SHOWN
PROJECT NO.: 1607
DWG. NO.: E-3
SHEET: E-3